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Properties of Selected Superconductive Materials

U.S. DEPARTMENT OF COMMERCE
National Bureau of Standards

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Properties of Selected Superconductive Materials

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PROPERTIES OF SELECTED SUPERCONDUCTIVE MATERIALS

B. W. Roberts

This is a noncritical compilation of data on superconductive materials that have been extracted from the literature published up to early 1971. The properties concerned are composition, critical temperature, critical magnetic fields, crystallographic data, and the lowest temperature tested for materials specifically explored for superconductivity. The compilation also includes a bibliography, a list of general review articles, and a special tabulation of high magnetic field superconductors.

Key Words: Bibliography; compilation of data; composition; critical field; critical temperature; crystallographic data; low temperature; superconductivity.

INTRODUCTION

This Technical Note extends the data set on superconductive materials published in Vol. IV of Progress in Cryogenics, 1964,* pages 160-231, and is in addition to the addendum, National Bureau of Standards Technical Note 482 of May 1969. The new material includes a portion of that data readily available to the author to early 1971. However, the world activity in the study of superconductive materials has continued at a high rate such that more than 500 references are in hand and yet to be perused for available data as this Technical Note is assembled.

BACKGROUND

Sixty years of research on the phenomena of superconductivity has led to an impressive current world activity aimed at further understanding and exploitation. This effort has produced a technology employed by many industrial concerns. Some of the latest developments include superconductive coils capable of producing magnetic fields approaching 25 Tesla. Superconductive magnets with precise and homogeneous fields and with selective spacial configurations are readily produced including some field gradient patterns that are impossible with normal state conductors. Huge linear accelerators are planned utilizing superconductive cavity walls. Large superconductive magnets have been constructed for hydrogen bubble chambers with coil diameters on the order of 3 meters and more. Plasma researchers have constructed floating superconductive

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* This data set has also been published in a Soviet book "New Materials and Methods of Investigating Metals and Alloys", edited by Professor I. I. Kornilov of the Baikov Institute of Metallurgy, 1966, Moscow, pp. 1-98.

coils. A direct current transformer has been produced utilizing a special arrangement of superconductive thin films for tunneling. A superconductive motor of 3250 hp. has been operated successfully as well as a 150 hp. superconductive generator. Doubtlessly, other applications will be stimulated as the information on superconductivity research and the data produced are disseminated to the scientific and industrial community.

GENERAL PROPERTIES OF SUPERCONDUCTORS **

The historically first observed and most distinctive property of a superconductive body is the near total loss of resistance at a critical temperature T_c characteristic of each material. Figure 1(a) illustrates schematically two types of possible transitions. The sharp vertical discontinuity is indicative of that found for a single crystal of a very pure element or one of a few well annealed alloy compositions. The broad transition, illustrated by broken lines, suggests the transition shape seen for materials that are inhomogeneous and contain unusual strain distributions. Careful testing of the resistivity limits for superconductors shows that it is less than 4×10^{-25} ohm-m, while the lowest resistivity observed in metals is of the order of 10^{-15} ohm-m. If one compares the resistivity of a superconductive body to that of copper at room temperature, the superconductive body is at least 10^{17} times less resistive.

The temperature interval, T_c, over which the transition between the normal and superconductive states takes place, may be of the order of as little as 2×10^{-5}K or several K in width, depending upon the material state. The narrow transition width was observed in 99.9999 purity gallium single crystals.

A Type I superconductive body below T_c, as exemplified by a pure metal, exhibits perfect diamagnetism and excludes a magnetic field up to some critical field H_c, whereupon it reverts to the normal state as shown in the H-T diagram of Figure 1(b).

HIGH FIELD SUPERCONDUCTIVITY

The discovery of the large current-carrying capability of Nb_3Sn and other similar alloys has led to an extensive study of the physical properties of these alloys. In brief, a high field superconductor, or Type II superconductor, passes from the perfect diamagnetic state

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** The NBS Office of Standard Reference Data, as administrator of the National Standard Reference Data System, has officially adopted the use of SI units for all NSRDS publications, in accordance with NBS practice. This publication does not use SI units uniformly because contractual commitments with the author predate establishment of a firm policy on their use by NBS. Other appropriate conversion factors will be found in Tables 1 and 2. We urge that specialists and other users of data in this field accustom themselves to SI units as rapidly as possible.

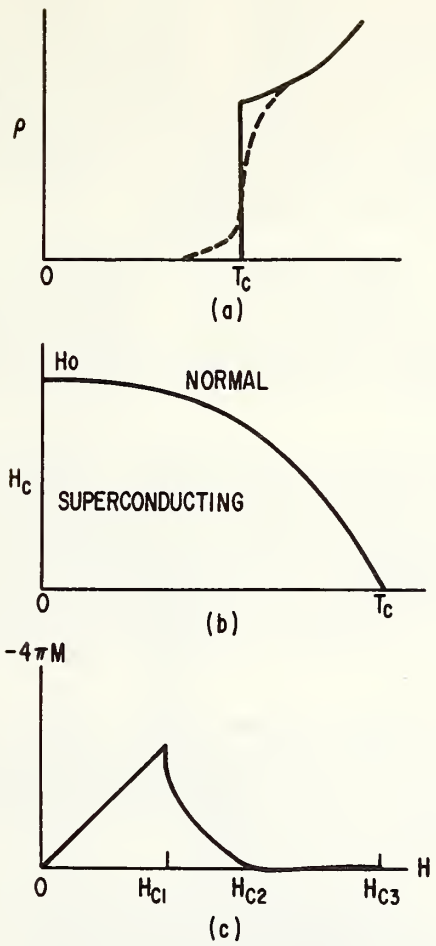

Figure 1. Physical properties of superconductors. (a) Resistivity versus temperature for a pure and perfect lattice (solid line). Impure and/or imperfect lattice (dashed line). (b) Magnetic field-temperature dependence for Type I or "soft" superconductors. (c) Schematic magnetization curve for "hard" or Type II superconductors.

at low magnetic fields to a mixed state and finally to a sheathed state before attaining the normal resistive state of the metal. The magnetization of a typical high field superconductor is shown in Figure 1(c). The magnetic field values separating the four stages are given as H_{c1}, H_{c2}, and H_{c3}. The superconductive state below H_{c1} is perfectly diamagnetic and identical to the state of most pure metals of the "soft" or Type I type. Between H_{c1} and H_{c2} a "mixed superconductive state" is found in which fluxons (a minimal unit of magnetic flux) create lines of normal superconductor in a superconductive matrix. The volume of the normal state is proportional to $-4\pi M$ in the "mixed state" region. Thus at H_{c2} the fluxon density has become so great as to drive the interior volume of the superconductive body completely normal. Between H_{c2} and H_{c3} the superconductor has a sheath of current-carrying superconductive material at the body surface, and above H_{c3} the normal state exists. With several types of careful measurement, it is possible to determine H_{c1}, H_{c2}, and H_{c3}. Table III contains some of the available data on high field superconductive materials.

A more complete representation of the states present in a high field superconductor is given in Fig. 2 with the additional phenomenon called fluctuation superconductivity. The latter phenomenon is evidenced in several physical properties above the appropriate critical fields and temperatures.

High field superconductive phenomena are also related to specimen dimension and configuration. For instance, the Type I superconductor, Hg, has entirely different magnetization behavior in high magnetic fields when contained in the very fine set of filamentary tunnels in an unprocessed Vycor glass. The great majority of superconductive materials are Type II. The elements in very pure form with the possible exceptions of vanadium and niobium are Type I.

A further complication in describing a high field superconductor has been found in a few examples wherein a specific alloy may exhibit Type II behavior up to a temperature intermediate between T_c and absolute zero and then is a Type I superconductor from the intermediate temperature to T_c.

CRITERIA FOR THE EXISTENCE OF THE SUPERCONDUCTIVE STATE AND NEW DEVELOPMENTS

Substantial numbers of experimental and theoretical attempts are still being actively pursued to enhance the known criteria outlining the existence of the superconductive state in materials. Still, the most used criteria are Matthias' rules developed empirically but with qualitative theoretical support. The primary prediction of Matthias' rules is that alloys with average valence electron per atom values just below 4 (3.7-3.9), 5 (4.7), and 7 (6.7) will often have notable superconductive critical temperatures. The average valence electron per atom ratio is taken directly from the periodic table and the prime example is shown in Fig. 3. T_c data for most of the known alloys with the β-W (or CrO_3 or A15) structures

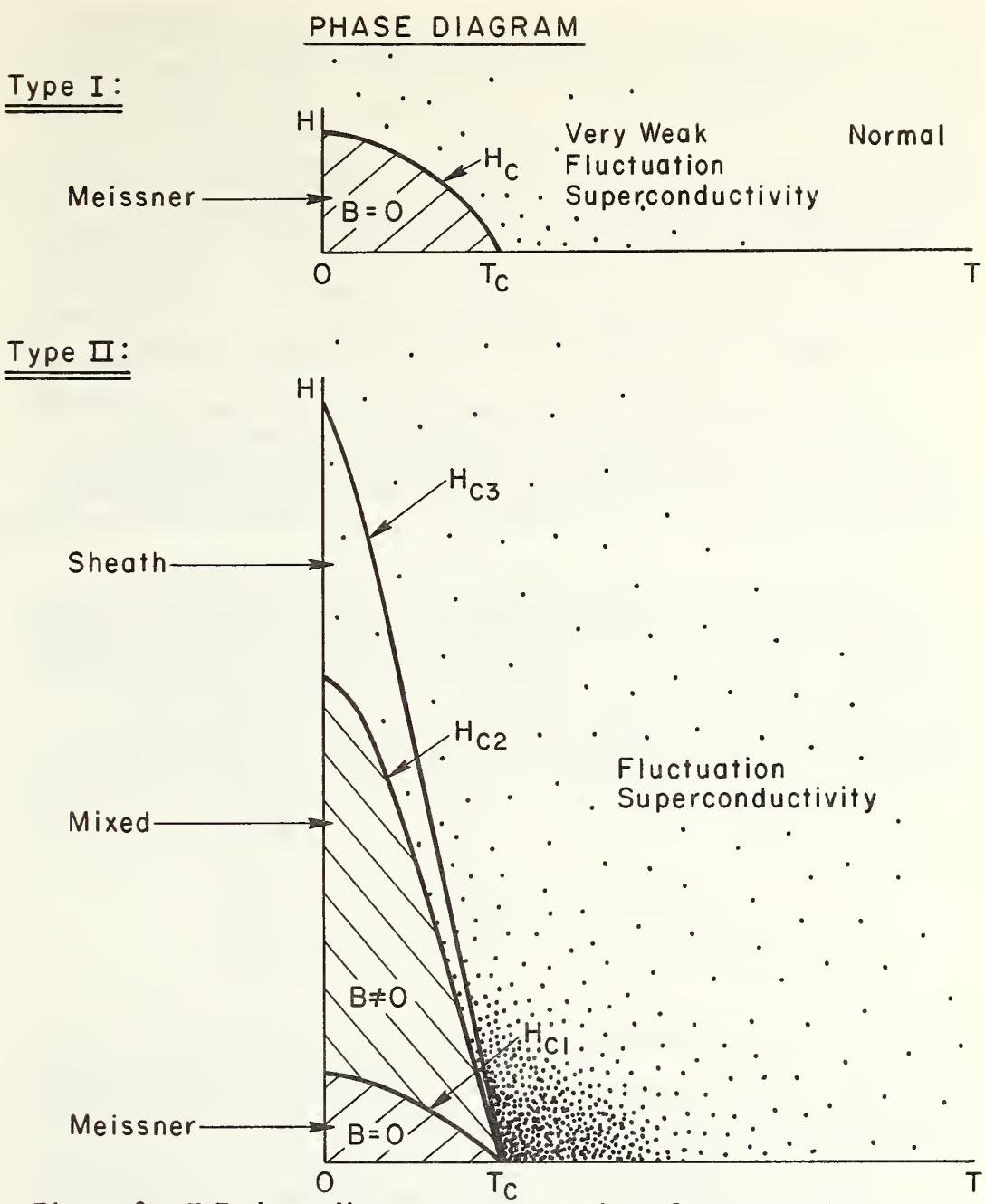

Figure 2. H-T phase diagram representation of Type I and Type II superconductors with locations for fluctuation superconductivity indicated. (R. R. Hake, personal communication and J. Applied Phys. 40, 5148 (1969). "The Thermodynamics of Type I and Type II Superconductors").

which have been prepared and tested for superconductivity are presented as a function of valence electron per atom ratio.[a] The pronounced peaking at 4.7 and 6.7 is evident. The evidence for the peak below the value 4 has been demonstrated from a group of alloys with seven different crystal structures.[b] Many additional parameters such as the mean atomic volume, the valence electron density and the mass of the constituent atoms have been useful but most often only in comparison among similiar structures or materials. A recently described oscillatory dependence of T_c on the mean number of valence electrons per atom has been described for the Cu_3Au-type ($L1_2$) alloys.[c] In five ternary alloy systems they find maxima in T_c near 3.3 and 3.7 valence electrons per atom. The authors indicate that Brillouin zone effects lead to the oscillatory behaviour.

Another theoretical insight leap is needed to lead materialists to the 30 K critical temperature realm which the superconductive technologists state would greatly amplify the present application of superconductive devices. Critical temperatures around 30 K would permit high magnetic field production with inexpensive liquid hydrogen as a coolant.

A wave of interest has swept the technical world for even higher critical temperatures in one-dimensional organic materials and two-dimensional layered arrays requiring new mechanisms for the superconductive state. A novel series of metallo-organic compounds have just been reported[d] which are composed of "atomically-thin, metallic layers of TaS_2 and layers of substituted pyridines" in alternation. Selected examples of such sandwich construction are

	T_c
TaS_2 (pyridine)$_{0.5}$	3.55
TaS_2 (4-Dimethylamino pyridine)$_{0.34}$	2.30
TaS_2 (3-Ethyl pyridine)$_{0.29}$	4.50
TaS_2 (2,3,6-Trimethyl pyridine)$_{0.165}$	1.95

from data on twenty combined materials. The added complexity for systematic data selection from these materials could become quite involved as this field may grow.

Several selected new developments include the reconsideration of Pauling's resonating-valence-bond theory of superconductivity[e] which gives good correlation for observed and calculated critical temperatures of Y, Zr, Nb, Mo, Tc, Ru and Rh.

Not only has fluctuation superconductivity been well documented above T_c but in high field superconductors two types of behavior have been delineated:[f] "standard" Type II and "extreme" Type II. The need for designation in these tables is under study.

Perusal of the new data in the "Pressure" portion of Table 1

illustrates the intense activity of study of the elements under various very high pressures and we note that several elements have been found superconductive including the alkali metal Cs. Further data are given in Table 2 along with a considerable number of new results on alloys prepared or studied while under high pressure.

A significant block of study has enveloped the discovery of the high critical temperatures in the ternary alloys of Nb (Al, Ge) and suitably composed and annealed alloys have been found to have an onset critical temperature of 20.98 K[g] and has been quoted as 21 $\pm$ 0.1 K[h].

Andres and Jensen[i] have shown a clear correlation of T_c with the mean electron density in over fifty alloys of the noble transition elements covering the temperature range 0.015 K to 5 K.

An extension of Ginzburg and Kirzhnits theory of surface superconductivity by Pashitskii[j] suggests another mechanism for the superconductive state with critical temperatures in the realm of $\sim 10^2$ to 10^3 K.

A calculated value of the critical temperature of Al which agrees well with experiment has been obtained from inelastic neutron scattering data on phonons and the Heine-Abarenkov pseudopotential for the electron-ion form factor.[k]

The critical temperature of Be co- deposited at low temperatures with KCl or zinc etioporphyrin has been found to increase T_c from the usual range of 5.4 to 8.6 K to 10.2 and 10.6 K respectively.[l] These very new results may be due to three-dimensional electron quantization effects on superconductivity in very tiny crystallites.[m]

METALLURGICAL ASPECTS OF SAMPLE PREPARATION

The sensitivity of superconductive properties to the material state is most pronounced and has been used on occasion in a reverse sense to study and specify the detailed state of alloys. The mechanical state, the homogeneity, and the presence of impurity atoms and other electron scattering centers are all capable of controlling the critical temperature and the current-carrying capabilities in high magnetic fields. Well annealed specimens usually show sharper transitions than those that are strained or inhomogeneous. This sensitivity to mechanical state underlines a general problem in the tabulation of properties for superconductive materials. The occasional divergent values of the critical temperature and of the critical fields quoted for a Type II superconductor may lie in the variation in sample preparation. Critical temperatures of materials studied early in the history of superconductivity must be evaluated in light of the probable metallurgical state of the material as well as the availability of less pure starting elements. It has been noted that recent work has given extended consideration to the metallurgical aspects of sample preparation.

(a) B. W. Roberts "Superconductive Compounds" in Intermetallic Compounds. Edited by J. H. Westbrook, John Wiley and Sons, New York (1967) pp. 581-613.

(b) Cooper, A. S. et.al, Proc. Nat. Acad. Sci. 67, 313 (1970).

(c) Havinga, E. E., Damsa, H. and VanMaaren, M. H., J. Phys. CHem. Solids 31, 2653 (1970).

(d) Gamble, F. R., Osiecki, J. H. and DiSalvo, F. J. To appear in J. Chem. Phys. Gamble, F. R., DiSalvo, F. J., Klemm, R. A. and Geballe, T. H., Science 168, 568 (1970).

(e) Pauling, L., Proc. Nat. Acad. Sci. 60, 59 (1968).

(f) Hake, R. R., Phys. Rev. 158, 356 (1967).

(g) Matthias, B. T., Inter. J. of Quantum Chem. Vol. IIIS, 903 (1970).

(h) Arrhenius, G., et.al, Proc. Nat. Acad. Sciences 61, 621 (1968).

(i) Andres, K. and Jensen, M. A., Phys. Rev. 165, 541 (1968).

(j) Pashitskii, E. A., Zh. Eksp. Teor. Fiz. 56, 662 (1969). Trans: Soviet Physics JETP 29, 362 (1969).

(k) Carbotte, J. P. and Dynes, R. C., Physics Letters 25A, 685 (1967).

(ℓ) Alekseevski, N. E., Tsebro, V. I. and Filippovich, E. I., ZhETF Pis. Red. 13, 247 (1971).

(m) Parmenter, R. H., Phys. Rev. 166, 392 (1968).

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NOTES CONCERNING THE DATA TABLES

Table 1 lists the elements and some of their superconductive properties. The data have been selected generally from recent studies in which sample purity and perfection appear to have been seriously considered.

Table 2 contains superconductive materials reported during the period plus all materials that have been reported to be tested specifically for a superconducting transition down to some temperature T_n without discovery of a transition. All compositions are denoted on an atomic basis, i.e., AB, AB_2 or AB_3 for compositions, unless noted. Solid solutions or odd compositions may be denoted as A_zB_{1-z}, or A_zB. A series of three or more alloys is indicated as A_xB_y or by actual indication of the atomic fraction range such as $A_{0-0.6}B_{1-0.4}$. The critical temperature of such a series of alloys is denoted by a range of values or possibly the maximum value. In many cases several references will be found for the same alloy. This usually denotes a separate measurement by each source, and in a few cases may even indicate a disagreement over the superconductive properties. In view of the previous discussions concerning the variability of the superconductive properties as a function of purity and other metallurgical aspects, it is recommended that the appropriate literature be checked to determine the most probable critical temperature or critical field of a given alloy. Another point of difficulty lies in the selection of the critical temperature from a transition observed in the effective permeability or the change in resistance, or possibly the incremental changes observed in frequency observed by certain techniques. Most authors choose the mid-point of such curves as the probable critical temperature of the idealized material, and others will choose the highest temperature at which a deviation from the normal state property is observed. Often the choice is not specified.

Table 3 lists high magnetic field superconductors.

Review articles concerned primarily with the experimental and material aspects of superconductivity are appended.

PROPERTIES OF THE SUPERCONDUCTIVE ELEMENTS

Table 1. Properties of the Superconductive Elements (New Data on the Elements are Referenced in Table 2 Along with Crystal Structure Data and Parameters for Non-superconductive Elements)

Element	T_c(K)	H_o (oersteds)[1]	θ_D(K)†	γ(mJ mole^{-1} deg. K^2)‡
Al	1.175	104.93	420	1.35
Be	0.026			0.21
Cd	0.56, 0.518	29.6	209	0.688
Ga	1.0833	59.3	325	0.60
Ga (β)	6.2			
Ga (γ)	7.62	HF*		
Hg (α)	4.154	411	87, 71.9	1.81
Hg (β)	3.949	339	93	1.37
In	3.405	281.53	109	1.672
Ir	0.14, 0.11	19	425	3.27
La (α)	4.88	808	142	10.0
La (β)	6.0	1,600	139	11.3
Mo	0.916	90	460	1.83
Nb	9.25	1970, HF	277	7.80
Os	0.655	65	500	2.35
Pa	1.4			
Pb	7.23	803	96.3	3.0
Re	1.697	188	415	2.35
Ru	0.493	66	580	3.0
Sb	2.6-2.7**	HF		
Sn	3.722	305	195	1.78
Ta	4.47	831	258	6.15
Tc	7.79, 7.92			
Th	1.374	131, 162	163.3	4.31
Ti	0.39	56, 100	429	3.32
Tl	2.39	179	78.5	1.47
V	5.31	1100, HF	382	9.82
W	0.0154	1.15	550	0.90

Note: Symbols explained on page 13.

Element	T_c(K)	H_o (oersteds)[1]	θ_D(K)†	γ(mJ mole^{-1} deg. K^2)
Zn	0.875	55	319.7	0.633
Zr	0.53	47	290	2.78
Zr (ω)	0.65			
	Thin Films Condensed at Several Temperatures			
Al	1.30-~5.7			
Be	5-8.2	HF		
with KCl	6.5-10.6			
with Zn etio-porphyrin	10.2			
Bi	6.154, 6.173			
Ga	8.4, 6.5			
In	3.43-4.5			
in Glass Pores	3.68-4.17	HF		
La	5.0-6.74			
Mo	4-6.7			
Nb	6.2-10	HF		
Pb	7.7			
Re	~7			
Sn	3.84-6.0			
Ta	3.16-4.8	HF		
Ti	1.3			
W	1.7-4.1			
Zn	~1.9			

DATA FOR ELEMENTS STUDIED UNDER PRESSURE

Element	T_c(K)	Pressure[2]
As	0.31-0.5	220-140 kbar
	0.2-0.25	~140-100 kbar
Ba II	~1.3	55 kbar
III	3.05	85-88 kbar
III	~5.2	> 140 kbar
Bi II	3.916, 3.90, 3.86	25, 25.2, 26.8 katm
III	6.55, 7.25	~37 kbar, 27-28.4 katm
IV	7.0	43, 43-62 kbar
V	8.3, 8.55	81 kbar
VI	8.55	90, 92-101 kbar
Ce	1.7	50 kbar
Cs	~1.5	> ~125 kbar
Ga II	6.24, 6.38	≥35 katm
II'	7.5	≥35 katm Then P → 0
Ge	4.85-5.4	~120 kbar
La	~5.5-11.93	0 to ~140 kbar
P	4.7	>100 kbar
	5.8	170 kbar
Pb II	3.55, 3.6	160 kbar
Sb	3.55	85 kbar
	3.52	93 kbar
	3.53	100 kbar
	3.40	~150 kbar
Se II	6.75, 6.95	~130 kbar
Si	7.1	120-130 kbar
Sn II	5.2	125 kbar
	4.85	160 kbar
III	5.30	113 kbar

Element		T_c(K)	Pressure[2]
Te	II	2.05	43 kbar
	III	4.28	70 kbar
	IV	4.25	84 kbar
Tl	(CUB)	1.45	35 kbar
	(HEX)	1.95	35 kbar
U		2.3	10 kbar
Y		~1.2 ~2.7	120-170 kbar

† For another data set see Mendelssohn, K., Cryophysics, p. 178 (Interscience, New York, 1960) and Gschneidner, K.A., Jr. in Solid State Physics 16, 275-426 (1964).

‡ Parkinson, D.H., Rep. progr. Phys. 21, 226 (1958). Also see Reference 572 and Gschneidner, K.A., Jr. in Solid State Physics 16, 275-426 (1964).

HF* See Table 3 for additional data on H_{c_1}, H_{c_2} and H_{c_3}. M equals maximum. FCC is face-centered cubic. HCP is hexagonal close-packed.

** Metastable

[1]To convert "oersteds" to ampere/meters, multiply by 79.57.

[2]To convert "atm" to "newton/meter^2", multiply by 1.013×10^5.

TABULATION OF SUPERCONDUCTIVE MATERIALS

Table 2. Tabulation of Superconductive Materials (including Proven Non-superconductors) with Critical Temperatures and Fields, Crystal Structure Data where determined, and References.

Symbols used:

*	Eutectic alloy
Δ	Uncertain composition.
R	Resistance measurements.
M	Denotes maximum T_c in series of specimens or compositions.
**	T_n is the lowest temperature at which a material has been checked for a superconductive transition.
HF	In H_o column indicates that some information is available in Table 3 on high field magnetic properties.
∇	On material or reference indicates a thin film study.
∞	All cell edges are intended to be quoted in Angstrom units.
T_c'	(----) Denotes incremental changes in T_c from T_c of pure metal. For example, T_c' (+0.05) denotes that two or more measurements have been made by adding a small amount of alloying element to a metal to form a dilute alloy and in so doing the T_c has been raised by 0.05 K. The entry T_c' (-0.3 K/a%) would indicate two or more measurements in which the critical temperature decreased 0.3 K per atomic percent of alloying element added.
t	T_c / T_{co}
o	Impure material.
C	Calorimetric determination.
VA	Valence electron/atom
SS	Solid solution.
n	Number of carriers in superconductive semiconductive materials.
#	Electronic specific heat (γ) and/or Debye θ data given.
□	Vacancy

Some of the above symbols may be found only in PROGRESS IN CRYOGENICS IV, 160-231, (1964).

KEY TO CRYSTAL STRUCTURE TYPES FOUND IN TABLE 2

"Struckturbericht" Type*	Example	Class
A1	Cu	Cubic, f.c.
A2	W	Cubic, b.c.
A3	Mg	Hexagonal, close packed
A4	Diamond	Cubic, f.c.
A5	White Sn	Tetragonal, b.c.
A6	In	Tetragonal, b.c. (f.c. cell usually used)
A7	As	Rhombohedral
A8	Se	Trigonal
A10	Hg	Rhombohedral
A12	α-Mn	Cubic, b.c.
A13	β-Mn	Cubic
A15	β-W	Cubic
B1	NaCl	Cubic, f.c.
B2	CsCl	Cubic
B3	ZnS	Cubic
B4	ZnS	Hexagonal
$B8_1$	NiAs	Hexagonal
$B8_2$	Ni_2In	Hexagonal
B10	PbO	Tetragonal
B11	γ-CuTi	Tetragonal
B17	PtS	Tetragonal
B18	CuS	Hexagonal
B20	FeSi	Cubic
B27	FeB	Ortho-rhombic

*See W. B. Pearson, Handbook of Lattice Spacing and Structures of Metals (Pergamon, New York, 1958), p. 79, also Vol. II (Pergamon, New York, 1967), p. 3.

"Struckturbericht" Type)*	Example	Class
B31	MnP	Ortho-rhombic
B32	NaTl	Cubic, f.c.
B34	PdS	Tetragonal
B_f	δ-CrB	Ortho-rhombic
B_g	MoB	Tetragonal, b.c.
B_h	WC	Hexagonal
B_i	γ′-MoC	Hexagonal
C1	CaF_2	Cubic, f.c.
$C1_b$	MgAgAs	Cubic, f.c.
C2	FeS_2	Cubic
C6	CdI_2	Trigonal
C11b	$MoSi_2$	Tetragonal, b.c.
C12	$CaSi_2$	Rhombohedral
C14	$MgZn_2$	Hexagonal
C15	Cu_2Mg	Cubic, f.c.
$C15_b$	$AuBe_5$	Cubic
C16	$CuAl_2$	Tetragonal, b.c.
C18	FeS_2	Ortho-rhombic
C22	Fe_2P	Trigonal
C23	$PbCl_2$	Ortho-rhombic
C32	AlB_2	Hexagonal
C36	$MgNi_2$	Hexagonal
C37	Co_2Si	Ortho-rhombic
C49	$ZrSi_2$	Ortho-rhombic

"Struckturbericht" Type*	Example	Class
C54	$TiSi_2$	Ortho-rhombic
C_c	Si_2Th	Tetragonal, b.c.
DO_3	BiF_3	Cubic, f.c.
DO_{11}	Fe_3C	Ortho-rhombic
DO_{18}	Na_3As	Hexagonal
DO_{19}	Ni_3Sn	Hexagonal
DO_{20}	$NiAl_3$	Ortho-rhombic
DO_{22}	$TiAl_3$	Tetragonal
DO_e	Ni_3P	Tetragonal, b.c.
$D1_3$	Al_4Ba	Tetragonal, b.c.
$D1_c$	$PtSn_4$	Ortho-rhombic
$D2_1$	CaB_6	Cubic
$D2_c$	MnU_6	Tetragonal, b.c.
$D2_d$	$CaZn_5$	Hexagonal
$D5_2$	La_2O_3	Trigonal
$D5_8$	Sb_2S_3	Ortho-rhombic
$D7_3$	Th_3P_4	Cubic, b.c.
$D7_b$	Ta_3B_4	Ortho-rhombic
$D8_1$	Fe_3Zn_{10}	Cubic, b.c.
$D8_2$	Cu_5Zn_8	Cubic, b.c.
$D8_3$	Cu_9Al_4	Cubic
$D8_8$	Mn_5Si_3	Hexagonal
$D8_b$	CrFe	Tetragonal

"Struckturbericht" Type*	Example	Class
$D8_i$	Mo_2B_5	Rhombohedral
$D10_2$	Fe_3Th_7	Hexagonal
$E2_1$	$CaTiO_3$	Cubic
$E9_3$	Fe_3W_3C	Cubic, f.c.
$H1_1$	Al_2MgO_4	Cubic, f.c.
$L1_0$	CuAu	Tetragonal
$L1_2$	Cu_3Au	Cubic
L'_{2b}	ThH_2	Tetragonal, b.c.
L'_3	Fe_2N	Hexagonal

Table 2. Tabulation of Superconductive Materials (including Proven Non-superconductors) with Critical Temperatures and Fields, Crystal Structure Data where determined, and references. (See VIII-1 for symbols)

Material	T_c (K)	H_o(oersteds)[1]	Crystal Structure	T_n**	Ref.
Ag Zn				1.30	1009
Al	1.187				755
Al	1.175	104.8			762#
Al (420-9850A.)	1.217-1.405				757$^{\nabla}$
Al					758$^{\nabla}$
Al (cold worked)	T_c'(-0.028)				746
Al	1.174 (extrap.)				746
Al (50-100A)	2.25-1.15				828$^{\nabla}$
Al (vs Pressure)	2.1-1.7				826$^{\nabla}$
Al (to 160A.)	~5.7 max.				837$^{\nabla}$
Al (~12-60A.)	3.0-4.6-3.8				837$^{\nabla}$
Al	1.19				856#
Al (200-200,000A.)		HF			888
Al (Granular)	3.66, 2.30				937$^{\nabla}$
Al	1.18	103			791#
Al (also vs Pressure)	1.1793	104.93			1004#
$Al_{0.9}As_{0.05}Ga_{0.05}Nb_3$	19.2				939
$Al_{1-x}As_xNb_3$	18.52,and lower				939
$Al_{1-x}As_xV_3$	10.6-10.1		A15		1015
$Al_{0.15}As_{0.85}V_3$	~3.0-2.5		A15		1015
$Al_{0.4}As_{0.6}V_3$	~6.7-6.6		A15		1015
$Al_{0.45}As_{0.55}V_3$	~7.6-7.3		A15		1015
$Al_{0.6}As_{0.4}V_3$	~10.4-10.0		A15		1015
Al_2Au				0.1	1011
$Al_{0.1}Au_{0.9}V_3$			A15	1.2	1015
$Al_{0.15}Au_{0.85}V_3$			A15	1.2	1015

[1] To convert "oersteds" to ampere/meters, multiply by 79.57

Material	T_c (K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Al_{0.2}Au_{0.8}V_3$			A15	1.2	1015
$Al_{0.35}Au_{0.65}V_3$			A15	1.2	1015
$Al_{0.5}Au_{0.5}V_3$			A15	1.2	1015
$Al_{0.2}B_5Mo_{1.8}$	5.7		C32		767
$Al_2C\ Mo_3$	9.2	HF	A13		966#
$Al\ C\ Ti_3$				1.15	711
$Al\ C\ Y_3$				1.15	711
$Al_2Ce_xLa_{1-x}$	3.237-2.1				953
$Al_{0.999}Fe_{0.001}$	1.50				976#
$Al_{1-x}Ga_xNb_3$	18.52 (and higher)				939
$Al_{1-x}Ga_xV_3$	14.5-5.5		A15		890
$Al_2Gd_xLa_{1-x}$	3.237-1.0				953
$Al\ Gd_xLa_{3-x}$	6.16-2.03		DO_{19}		943
$Al_{3-x}Gd_xLa$	2.2-6.16	HF			918
$Al_{2.966}Gd_{0.034}La$	2.05	HF	DO_{19}		918
$Al_{2.968}Gd_{0.032}La$	3.00	HF	DO_{19}		918
$Al_{2.98}Gd_{0.02}La$	4.00	HF	DO_{19}		918
$Al_{2.988}Gd_{0.012}La$	5.00	HF	DO_{19}		918
$Al_{1-x}Ge_x$	T_c'(-0.018)				746
$Al\ Ge_{0.026}$	T_c'(+0.005)				746
$Al_{0.65}Ge_{0.35}Hf_{3y}Nb_{3(1-y)}$	20.1-4.0-6.2 (annealed)				885
$Al_{0.70-0.75}Ge_{0.30-0.25}Nb_3$	21.0		A15		1019
$Al_{0.8}Ge_{0.2}Nb_3$	19.1-17.8	HF			823
$Al_{0.72}Ge_{0.28}Nb_{3.36}$	18.38 19.04(annealed)				859
$Al_{0.72}Ge_{0.28}Nb_{3.61}$	18.45 18.97(annealed)				859
$Al_{1-x}Ge_xNb_3$	20.7	HF			876
$Al_{1-x}Ge_xNb_{3(1-y)}Zr_{3y}$	20.2-6.1				885
$Al_{0.75}Ge_{0.25}Nb_3$	20.2				885

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Al_{0.65}Ge_{0.35}Nb_{3(1-y)}Zr_{3y}$	18.5-5.1-6.1 (as cast) 20.1-5.3-10.3 (annealed)				885
$Al_{0.65}Ge_{0.35}Nb_3$	20.1				885
$Al_{0.65}Ge_{0.35}Nb_{3(1-y)}Ti_{3y}$	18.50-1.37-1.8 (as cast) 20.1-4.7-6.2 (annealed)				885
$Al_{0.66}Ge_{0.33}Nb_{2.5}$	19.6-20.1	HF			896
$Al_{0.75}Ge_{0.25}Nb_3$	18.5 $\pm$ 0.9	HF			789
$Al_{0.75}Ge_{0.25}Nb_3$	18.5 $\pm$ 0.9				789
$Al_{0.153}Ge_{0.057}Nb_{0.79}$		HF	A15		787
$Al_xGe_{1-x}Nb_3$	11.4		A15		708
$Al_{0.8}Ge_{0.2}Nb_3$(2000A)	10.7		A15		708[V]
$Al_xGe_{1-x}Nb_3$	4.2-11.4				708[V]
$Al_{1-x}Ge_xV_3$	6.5-12.3		A15		890
$Al_xGe_{1-x}V_3$	5.9-13.9		A15		894
$Al_xGe_{1-x}V_3$	5.9-12-9.8-11.15		A15		894
$Al_{0.212}Ge_{0.036}V_{0.751}$	10.65,6.42		A15		792
$Al_{0.175}Ge_{0.072}V_{0.753}$	10.98,7.0		A15		792
$Al_{0.125}Ge_{0.121}V_{0.754}$	6.67, 9.98		A15		792
$Al_{0.075}Ge_{0.169}V_{0.756}$	11.8		A15		792
$Al_{0.038}Ge_{0.205}V_{0.757}$	9.7		A15		792
$Al_{0.1}Ge_{0.9}V_3$	9.2-8.9		A15		1015
$Al_{0.2}Ge_{0.8}V_3$	11.3-11.1		A15		1015
$Al_{0.3}Ge_{0.7}V_3$	12.0-11.5		A15		1015
$Al_{0.4}Ge_{0.6}V_3$	12.5-12.3		A15		1015
$Al_{0.5}Ge_{0.5}V_3$	11.8-11.4		A15		1015
Al_2La	3.237				953
$Al\ La_3$	6.16	HF	DO_{19}		943
Al_4La				1.15	711
Al_2La (Plus Ce, Pr, Nd, Sm, Gd, Tb, Dy, Ho, Er, Tm, Yb)	3.24 (all cases)				794

Material	T_c (K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Al $Mg_{0.0106}$	1.132				856#
Al $Mg_{0.0049}$	1.138				856#
Al $Mg_{0.0009}$	1.17				856#
$Al_{1-x}Mn_x$	1.17-0.12				951
Al_5Mo				1.15	712
$Al_{0.215}Nb_{0.785}$	17.97,17.28				859
Al Nb_3 (diffusion wire)	17.14	HF	A15		880
Al Nb_3	18.52-18.9		A15		939
Al Nb_3	17.77-16.3		A15		801
Al Nb_3	≈18.7	HF	A15		787
$Al_{0.8-0.1}Nb_3Sb_{0.2-0.9}$	16.74-3.92		A15		801
$Al_{0.95}Nb_3Sb_{0.05}$	17.81		A15		801
$Al_{0.9}Nb_3Sb_{0.1}$	18.06		A15		801
$Al_xNb_{4x}Si_{1-x}V_{3(1-x)}$	16.5-4.0-16.7		A15		893
Al_3Os_2				1.15	711
Al_2Os				1.15	711
Al_2Os				1.15	711
Al_6Re	1.85				711
$Al_{12}Re$				1.15	712
$Al_{1-x}Sb_xV_3$	4.5-7.2		A15		890
$Al_{1-x}Si_x$	T_c'(-0.019)				746
$Al_{1-x}Si_xV_3$	5-14.5		A15		890
$Al_{0.0015}Sn_{0.9985}$		HF			850
Al_xSn_{1-x}	3.72-3.692				850
$Al_{1-x}Sn_xV_3$	4.5-6		A15		890
Al_2Th_3	2.6		Tet.		927
Al_3U			$L1_2$	0.07	715

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Al_{0.24}V_{0.76}$	11.15		A15		894
Al V_3					824
Al V_3	11.65		A15		792
Al_2Y_3				1.15	711
Al Y_2				1.15	711
Al Y				1.15	711
Al_3Yb	0.94		$L1_2$		715
$Al_{1-x}Zn_x$	T_c(-0.037)				746
As { 220-140 kbar ~140-100 kbar	0.31-0.5 0.2 -0.25				898
As				1.3	774
As_2Cd Ge(60-70 kbar)	2.84-3.02		Tet.		867
As_2Cd Sn(60 kbar)	1.79-2.29		B1		865
As Ge (30-65 kbar)	3-3.5				891
$As_{0.04}Ge_{0.15}Te_{0.81}$($n \approx 10^{20}$)	0.82R, 0.56				875
$As_3Sn_{3.80}$($n=3.0 \times 10^{22}$)	1.23-1.19				930
As V_3			A15	1.2	015
Au Al_2	0.095-0.074				866#
$Au_{0.2}B_5Mo_{1.8}$	4.5, 3.6-2.5		C32		767
$Au_{0.1}C_{1.30}Y_{0.9}$	10.1		$D5_c$		870
Au Ga_2	1.12				1011
Au Ga_2	1.12-1.05		C1		866#
$Au_{0.98}Ga_2Pd_{0.02}$	1.35-1.25		C1		866#
$Au_{0.95}Ga_2Pd_{0.05}$	1.79				1011
$Au_{0.9}Ga_2Pd_{0.1}$	1.73-1.72		C1		866#
$Au_{0.85}Ga_2Pd_{0.15}$	1.75-1.73		C1		866
Au Ge	2.7-2.25				908▽
Au Ge				1.4	908
Au In_2				0.1	1011

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Au\ In_2$	0.096-0.093				866#
$Au_{0.9}In_2Pd_{0.1}$				0.36	866
$Au\ Nb_3$	10.5		A15		922#
$Au\ Nb_3$	8.99		A15		707
$Au\ Nb_3$	9.73		A15		707
$Au\ Nb_3$	10.60		A15		707
$Au_xNb_3Pt_{1-x}$	10.7-12.7-11.3 (annealed) 8.3-9.1 (quenched)		A15		934
$Au_{0.7}Nb_3Pt_{0.3}$	12.5		A15		922#
$Au_{0.95}Pd_{0.05}Ga_2$	1.75-1.69		C1		866#
$Au\ Ta_{4.3}$	0.58-0.51		A15		1015
$Au\ Te_2(n=2.5 \times 10^{21})$				0.051	770
$Au\ Ti_3$			A15	0.015	707
$Au\ Ti_3$			A15	0.35	980
$Au\ V_3$	2.55	HF			857
$Au_{0.25}V_{0.75}$	1.60				948#
$Au_{0.25}V_{0.75}$	2.20				948#
$Au_{0.25}V_{0.75}$(as cast)			A15	0.90	948#
$Au_{0.25}V_{0.75}$(as cast, levitated)	0.67		A15		707
$Au_{0.28}V_{0.72}$(as cast, levitated)	0.64		A15		707
$Au\ V_3$			A15	0.015	707
$Au\ V_3$	2.980	HF	A15		707
$Au\ V_3$	1.785	HF	A15		707
$Au\ V_3$	0.86	HF	A15		707
$Au_{0.23}V_{0.77}$(as cast, levitated)	0.66		A15		707
$Au\ V_3$	2.97 to <0.012 (by heat treatment)				987
$B\ C\ Mo_2$	7.1	HF	Ortho.		966#
$B_{0-0.2}C_{1-0.8}Mo$	14.3-12.5		B1		1006

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$B_6Ce_{0.01}Y_{0.99}$	T_c'(-0.8)				1014
$B_{12}Ce_xZr_{1-x}$	T_c'(-0.15 K/$^a/_o$)				782
$B_6Dy_{0.01}Y_{0.99}$	T_c'(-0.65)				1014
$B_{12}Dy_xZr_{1-x}$	T_c'(-0.45 K/$^a/_o$)				782
$B_6Er_{0.01}Y_{0.99}$	T_c'(0.25)				1014
$B_{12}Er_xZr_{1-x}$	T_c'(-0.25 K/$^a/_o$)				782
$B_6Eu_{0.01}Y_{0.99}$	T_c'(-0.3)				1014
$B_{12}Gd_xZr_{1-x}$	T_c'(-0.6 K/$^a/_o$)				782
$B_5Hf_{0.2}Mo_{1.8}$	8.7, 8.4-8.1		C32		767
$B_5Hf_{0.2}Nb_{1.8}$	4.5, 3.6-2.6		C32		767
$B_6Ho_{0.01}Y_{0.99}$	T_c'(-0.4)				1014
$B_{12}Ho_xZr_{1-x}$	T_c'(-0.3 K/$^a/_o$)				782
$B_{2.5}Mo$	8.1, 7.45-5.2		C32		767
B_2Mo			C32	1.0	767
$B\ Mo_2$	5.86				1020
$B_5Mo_{0.2}Nb_{1.8}$	4.9, 4.3-4.0		C32		767
$B_5Mo_{1.7}Nb_{0.3}$	8.5, 8.3-8.2		C32		767
$B_5Mo_{1.8}Sc_{0.2}$	9.0, 8.8-8.3		C32		767
$B_5Mo_{1.7}Ta_{0.3}$	7.0, 7.0-5.9		C32		767
$B_5Mo_{1.7}Ti_{0.3}$	7.4, 7.1-5.5		C32		767
$B_5Mo_{1.7}V_{0.3}$	5.8, 5.5-5.0		C32		767
$B_5Mo_{1.9}Y_{0.1}$	8.6, 8.0-7.5		C32		767
$B_5Mo_{1.9}Zr_{0.1}$	9.0, 8.9-8.4		C32		767
$B_5Mo_{1.69}Zr_{0.31}$	11.2, 10.3-8.5		C32		767
$B_2Mo_{1-0.75}Zr_{0-0.25}$	<1 to 10.3				767
$B_{2.5}Nb$	6.4, 4.0-3.0		C32		767
B_2Nb_3			Tet.	0.1	927
B_2Nb			C32	1.0	767

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
B_2Nb					810#
$B_5Nb_{1.8}Ru_{0.2}$	6.0, 5.4-3.0		C32		767
$B_5Nb_{1.9}Sc_{0.1}$	6.6, 4.2-3.0		C32		767
$B_5Nb_{1.8}Th_{0.2}$	7.0, 6.1-4.9		C32		767
$B_5Nb_{1.9}Ti_{0.1}$	4.0, 2.9-2.2		C32		767
$B_5Nb_{1.8}V_{0.2}$	2.5, 2.2-1.1		C32		767
$B_5Nb_{1.9}Y_{0.1}$	9.3, 8.2-5.2		C32		767
$B_5Nb_{1.8}Zr_{0.2}$	5.9, 5.1-2.6		C32		767
$B_6Nd_{0.01}Y_{0.99}$	T_c'(-0.15)				1014
$B_{12}Nd_xZr_{1-x}$	T_c'(-0.6 K/$^a/_o$)				782
$B_6Pr_{0.01}Y_{0.99}$	T_c'(-0.1)				1014
$B_{12}Pr_xZr_{1-x}$	T_c'(-13 K/$^a/_o$)				782
$B_6Sm_{0.01}Y_{0.99}$	T_c'(-0.4)				1014
$B_{12}Sm_xZr_{1-x}$	T_c'(-0.6 K/$^a/_o$)				782
B_2Ta_3			Tet.	0.1	927
$B_6Tb_{0.01}Y_{0.99}$	T_c'(-0.9)				1014
$B_{12}Tb_xZr_{1-x}$	T_c'(-0.6 K/$^a/_o$)				782
$B_6Tm_{0.01}Y_{0.99}$	T_c'(-0.4)				1014
$B_{12}Tm_xZr_{1-x}$	T_c'(-0.35 K/$^a/_o$)				782
B_2V_3			Tet.	0.1	927
B W_2	3.18				1020
$B_6Y_{0.99}Yb_{0.01}$	T_c'(-0.2)				1014
$B_{12}Yb_{0.01}Zr_{0.99}$	4.4				1014
$B_{12}Zr$	6.0		Cub.		782
Ba (III)(Metastable, 85-88 kbar)	3.05				902
Ba (II) (at 55 kbar)	~ 1.3				777
Ba (III)(At or >140 kbar)	~ 5.2				777
Ba Bi_3	5.80		Tet.		715

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ba_{0.075}O_3Sr_{0.925}Ti$	~0.5				988#
$Ba_{0.025-0.125}O_3Sr_{0.975-0.875}Ti$	0.52-<0.10	HF			1005
$Ba\ O_3Ti$(n=1.3 x 10^{20})	(n = 0.05-34 x 10^{19})			0.059	770
Be (with KCl at 4.2 K)	10.6, 8.3, 6.5				1028$^{\nabla}$
Be (with zinc etio-porphyrin)	10.2				1028$^{\nabla}$
Be (25-200A)	6.4-8.2-5				899$^{\nabla}$
Be (>200-1000A)				1.3	899$^{\nabla}$
Be (~40 ppm impurity)	0.026				783#
Be_5Co				1.15	712
$Be_{12}Co$				1.15	712
$Be_{11}Fe$				1.15	712
$Be_{17}Hf_2$				1.15	712
$Be_{13}Hf$				1.15	712
$Be_{12}Mn$				1.15	712
$Be\ Mo_3$				1.15	712
Be_2Nb_3	2.3		Tet.		927
Be_3Nb				1.15	712
$Be_{17}Nb_2$	1.47				712
Be_2Nb	2.15				712
$Be_2Nb_{1.5}Ta_{1.5}$	1.7		Tet.		927
Be_2Os	3.07				712
Be_2Rh	1.37				712
$Be_{17}Ru_3$				1.15	712
Be_2Ru	1.35				712
Be_2Ta_3	1.0		Tet.		927
$Be_{13}Th$				1.15	712
$Be_{13}Ti$				1.15	712

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Be_{12}Ti$				1.15	712
$Be_{21}W_5$				1.15	712
$Be_{13}Zr$				1.15	712
$Be_{16}Zr$				1.15	712
$Be_{17}Zr_2$				1.15	712
Bi (V)(Ref.903 says BiVI)	8.55				904
Bi (VI) (90 kbar)	8.55				903
Bi (V) (68 kbar)	6.7				903
Bi (IV) (43 kbar)	7.0				903
Bi (V) (81 kbar)	8.30				780
Bi					773[V]
Bi (II) (26.4 kbar)		~320			785
Bi (690A at 1.5 K)	6.173				737[V]
Bi (750A at 4.2 K)	6.154				737[V]
Bi (III) (~37 kbar)	6.55	HF			973
$Bi_{0.3}C_{1.45}Y_{0.7}$				4.0	870
$Bi_{0.1}C_{1.45}Y_{0.9}$	9.35		$D5_c$		870
$Bi_{0.015}In_{0.985}$					822[V]
$Bi_{0.343}In_{0.657}$ (also to 30 kbar)	5.55				843
$Bi_{0.015}In_{0.985}$	3.725				842
Bi_xIn_{1-x}	3.39-4.21				799
$Bi_{0.019}In_{0.981}$	3.86	336			722
Bi_2K (0 to 10 katm also)	3.57				897
Bi_xPb_{1-x}		HF			750[V]
$Bi_{0-0.056}Pb_{1-0.44}$		HF			855
$Bi_{0.38-.88}Pb_{0.62-0.12}$	8.5-4.6				851
$Bi_{0.26}Pb_{0.74}$	8.3				851
$Bi_{0.23}Pb_{0.77}$	7.8				851

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Bi_{0-0.2}Pb_{1-0.8}$	7.25-8.0		Al		851
$Bi_{0.1-1}Pb_{0.9-0}$ (deposited at 4.2 K)	6-7.1				851
Bi_xPb_{1-x}					852
$Bi_{0.625}Pb_{0.375}$	8.05, 7.25 (after 30 kbar applied)				843
Bi_xPb_{1-x}	T_c'(+0.22)				861
$Bi_{0.025-0.40}Pb_{0.975-0.60}$	t = 0.58-0.50	HF			949
$Bi_{1-0.92}Pb_{0-0.08}$(500-1100A)	6.154-6.032				737 ▽
$Bi_{1-0.95}Sb_{0-0.05}$(~700-900A)	6.154-6.374				737▽
Bi Sn	3.72, 4.20 (after 30 kbar)				843
Bi_3Sr	5.70		Ll_2		715
Bi_2Te_3(n = 1.0 x 10^{21})				0.019	770
Bi Ti_3				1.15	712
Bi_xTl_{1-x}	T_c'(+0.16)		Hex.		858
$Bi_{0.86}Tl_{0.14}$	650 and at 30 kbar				843
$Bi_{0.62-0.18}Tl_{0.38-0.82}$	6.6-2.3				736
$Bi_{1-0.87}Tl_{0-0.13}$(550-820A)	6.154-6.220				737▽
$Bi_{\sim0.97}Tl_{\sim0.03}$(at 4.2 K)	6.1				990▽
Bi V_3			A15	4.2	825
$C_{1.35}Ca_{0.1}Y_{0.9}$	10.5-11.5				870
C_2Ce				2.0	784
$C_{1.45}Cr_{0.1}Y_{0.9}$	12.4		$D5_c$		870
C_2Dy				2.0	784
C_2Er				2.0	784
C_2Gd				2.0	784
$C_{1.5}Ge_3La_5$	3.3-3.7		Cub.		767
$C_{1.35}Ge_{0.1}Y_{0.9}$	10.6		$D5_c$		870
$C_{2.5}H_{2.5}N_{0.5}Pd\ Te_2$	1.65		Hex.		1027
$C_{2.5}H_{2.5}N_{0.5}S_2Ta$	3.5	HF	Hex.		1027

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$C_{2.5}H_{2.5}N_{0.5}Nb\ S_2$	4.0		Hex.		1027
$C_{2.5}H_{2.5}N_{0.5}Se_2Ta$	1.5		Hex.		1027
$C\ Hf_{0-0.2}Mo_{1-0.8}$	14.3-11.7		B1		1006
C_2Ho				2.0	784
$C_{1.35}In_{0.15}Y_{0.85}$				4.0	870
$C\ Ir_2Mo_3$	1.8		Cub.		793
$C\ Ir\ Mo_3$	3.2		Cub.		793
$C_2Ir\ U_2$			Tet.	0.3	1018
$C\ Ir_2W_3$	2.1		Cub.		793
C_2La	1.61		Tet.		863
C_3La_2	5.9-11.0		$D5_c$		869
C_2La				2.0	784
C_2Lu	3.33		Tet.		863
C_2Lu				2.0	784
C Mo	8.0				815
$C\ Mo_2$	2.9				815
$C_{0.42}Mo$	2.8		L'_3		966#
$C\ Mo_2$	4.0		Ortho.		966#
$C_{0.64}Mo$	8.0	HF	Hex.		966#
$C_{0.69}Mo$	12.1	HF	B1		966#
C Mo	14.3		B1		1006
$C\ Mo_{1-0}Nb_{0-1}$	11.1-10.8-14.3		B1		1006
$C\ Mo_3Pt_2$	1.1		Cub.		793
$C\ Mo_3Re_2$			Hex.	1.0	793
$C_2Mo\ Re$	3.8		Cub.		793
$C\ Mo_{0.90}Re_{0.10}$	13.8		B1		1006
$C\ Mo_{0.90}Ru_{0.10}$	13.6		B1		1006
$C\ Mo_{1-0}Ta_{0-1}$	10.1-8.3-14.3		B1		1006

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
C $Mo_{1-0.8}Ti_{0-0.2}$	14.3-12.0		B1		1006
C $Mo_{1-0.8}V_{0-0.2}$	14.3-12.7		B1		1006
C $Mo_{1-0}W_{0-1}$	14.3-8.8-10.0		B1		1006
$C_{1.45}Mo_{0.1}Y_{0.9}$	13.8		$D5_c$		870
C $Mo_{1-0.8}Zr_{0-0.2}$	14.3-10.9		B1		1006
$C_{0.48}Nb$				1.6	967#
$C_{0.77}Nb$			B1	2.0	967#
$C_{0.83}Nb$	2.4		B1		967#
$C_{0.86}Nb$	3.7		B1		967#
$C_{0.91}Nb$	6.3		B1		967#
$C_{0.96}Nb$	9.8		B1		967#
C Nb	11.1		B1		1006
C $Nb_{1-0}Ta_{0-1}$	11.1-8.9-10.1		B1		1006
C $Nb_{1-0}W_{0-1}$	11.1-13.5-10.0		B1		1006
$C_{1.35}Nb_{0.1}Y_{0.9}$	10.8		$D5_c$		870
C_2Nd				2.0	784
$C_2Os\ U_2$			Tet.	0.3	1018
C Os_2W_3	2.9		Cub.		793
C_2Pr				2.0	784
$C_2Pt\ U_2$	1.47		Tet.		1018
C Pt_2W_3	1.2		Cub.		793
$C_{0.04}Re_{0.96}$	1.98				712
C Re_2W_3			A13	1.0	793
C_2ReW	3.8		Cub.		793
$C_{1.35}Re_{0.3}Y_{0.7}$				4.0	870
$C_2Rh\ U_2$			Tet.	0.3	1018
$C_2Ru\ U_2$			Tet.	0.3	1018
$C_{1.35}Ru_{0.3}Y_{0.7}$				4.0	870

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$C_{1.35}Ru_{0.1}Y_{0.9}$	11.2		$D5_c$		870
$C_{10}Sc_{13}(Ge_{0.01}$ to $Ge_{0.16+})$	7.0-8.5		Cub.		871
C_3Sc_4			Cub.	1.0	871
$C_{1.35}Si_{0.1}Y_{0.9}$	11.3		$D5_c$		870
C_2Sm				2.0	784
$C_{1.35}Sn_{0.1}Y_{0.9}$	10.2		$D5_c$		870
$C_{0.78}Ta$			B1	1.6	967#
$C_{0.47}Ta$			C6	1.6	967#
$C_{0.95}Ta$	6.2		B1		967#
$C_{0.93}Ta$	5.4		B1		967#
$C_{0.83}Ta$	1.8		B1		967#
C Ta	10.1		B1		1006
C $Ta_{1-0}W_{0-1}$	10.1-10.2-9.0-10.0		B1		1006
C_2Tb				2.0	784
$C_{1.55}Th_{0.3}Y_{0.7}$	17.0		$D5_c$		870
$C_{1.35}Th_{0.1}Y_{0.9}$	12.0		$D5_c$		870
$C_{1.35}Th_{0.2}Y_{0.8}$	14.7		$D5_c$		870
$C_{1.35}Th_{0.3}Y_{0.7}$	16.4		$D5_c$		870
$C_{1.35}Th_{0.35}Y_{0.65}$	16.8		$D5_c$		870
$C_{1.35}Th_{0.4}Y_{0.6}$	16.0		$D5_c$		870
$C_{1.35}Th_{0.5}Y_{0.5}$	15.5		$D5_c$		870
$C_{1.35}Th_{0.6}Y_{0.4}$	15.1		$D5_c$		870
$C_{1.35}Th_{0.7}Y_{0.3}$	14.4		$D5_c$		870
$C_{1.35}Th_{0.8}Y_{0.2}$				4.0	870
$C_{1.35}Th_{0.9}Y_{0.1}$				4.0	870
$C_{1.40}Th_{0.3}Y_{0.7}$	16.3		$D5_c$		870
$C_{1.45}Th_{0.3}Y_{0.7}$	16.3		$D5_c$		870
$C_{0.150}Th_{0.25}Y_{0.7}$	16.8		$D5_c$		870

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$C_{0.155}Th_{0.7}Y_{0.3}$				4.0	870
$C_{1.65}Th_{0.4}Y_{0.6}$				4.0	870
$C_{1.35-1.55}Th_{0.40-0.25}Y_{0.60-0.75}$	15.4-17.0		$D5_c$		870
$C_{1.2-2.0}Th_xY_{1-x}$			Tet.	4.0	870
$C_{1.2-2.0}Th_{0.3}Y_{0.7}$			Tet.	4.0	870
$C_{0.52}Ti$	3.42	HF	Cub.		790
$C_{0.69}Ti$			Cub.	1.5	790
$C_{0.83}Ti$			Cub.	1.5	790
$C_{0.91}Ti$			Cub.	1.5	790
$C_{0.46}Ti$	3.32	HF	Cub.		790
$C_{1.55}Ti_{0.1}Y_{0.9}$	14.5		$D5_c$		870
$C_{1.50}Ti_{0.3}Y_{0.7}$	12.9		$D5_c$		870
$C_{1.45}Ti_{0.1}Y_{0.9}$	14.2		$D5_c$		870
$C_{1.35}Ti_{0.1}Y_{0.9}$	10.7		$D5_c$		870
C_2Tm				2.0	784
$C_{1.45}U_{0.15}Y_{0.85}$			$D5_c$	4.0	870
C V					810#
$C_{1.45}V_{0.1}Y_{0.9}$	11.5		$D5_c$		870
C W	2.5-4.21				815
C W	10.0		B1		1006
$C_{1.55}W_{0.1}Y_{0.9}$	14.8		$D5_c$		870
$C_{1.45}W_{0.1}Y_{0.9}$	14.5		$D5_c$		870
C Y_3				1.15	711
C Y_3				1.4	863
C_2Y	3.75		Tet.		863
$C_{1.55}Y$	6.0		$D5_c$		870
$C_{1.50}Y$	6-8				870
$C_{1.45}Y$	11.5		$D5_c$		870

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$C_{1.35}Y$	10.0		$D5_c$		870
$C_{1.30}Y$	8.2		$D5_c$		870
C_3Y_2	6.0-11.5		$D5_c$		868
C_2Y	3.88		C11a		784
$C_{1.35}Y_{0.8}Zn_{0.2}$				4.0	870
$C_{1.45}Y_{0.9}Zr_{0.1}$	13.0		$D5_c$		870
C_2Yb				2.0	784
$Ca\ H_{18}N_6$				1.9	1010
$Ca_{0.025-0.30}O_3Sr_{0.975-0.70}Ti$	0.50 to <0.05 (n=0.06-74.0 x 10^{19})	HF			1005
$Ca\ Pb_3$	0.65 ± 0.4		$L1_2$		715
$Ca\ Pb_{3x}Tl_{3(1-x)}$	Max. at 3.3, 3.7		$L1_2$		715
$Ca\ Si_2$	1.58	HF	C_c		961
$Ca\ Si_2$			C12	0.32	961
$Ca\ Tl_3$	2.04		$L1_2$		715
Cd					933
Cd Cu				1.30	1009
$Cd_{0.72-0.07}Hg_{0.28-0.93}$	1.3-3.3		Tet.		732
$Cd_{1-0.72}Hg_{0-0.28}$	0.5-1.35		Hex.		732
$Cd_{0.06-0}Hg_{0.94-1}$	4.09-4.15				732
$Cd_{0.02}Hg_{0.98}$		HF			978
$Cd_{0.015}Hg_{0.985}$		HF			978
$Cd_{0-0.06}In_{1-0.94}$(quenched)	3.406-3.245		Tet.		728
$Cd_{0.06-0.6}In_{0.94-0.4}$(quenched)	3.55-3.00		Cub.		728
Cd_xPb_{1-x}	T_c(-0.08)				861
Cd_xSn_{1-x}	T_c(-0.085)				804
$Cd\ V_3$			A15	4.2	825
$Ce\ Co_2$	0.53-1.44		C15		776
$Ce\ Co_2$	1.5		C15		776

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ce_{1-x}Co_xRu_2$	T_c'(-1.0 K/mol%)				946
$Ce_{1-x}Fe_xRu_2$	T_c'(-9.5 K/mol%)				946
$Ce_{1-x}Gd_xRu_2$	6.2 - ≈3.8				946
Ce In_3			Ll_2	0.07	715
$Ce_xIn\ La_{3-x}$					1012
$Ce_{0.001}La_{0.999}$	3.10				915
$Ce_{0.007}La_{0.993}$(0-23 kbar)	4.7-6.2				1016
$Ce_{0.013}La_{0.887}$(0-12-22 kbar)	3.2-3.5-2.3		Hex.		1016
$Ce_{0.013}La_{0.887}$(0-12-23 kbar)	3.7-3.1-4.3 (as cast)				1016
$Ce_{0.013}La_{0.887}$(0-12-~140 kbar)	3.7-3.2-11.4				1016
$Ce_{0.02}La_{0.98}$(0-10-24 kbar)	2.6-<0.3-3				1016
$Ce_{0.16}La_{0.84}$(27-110 kbar)	4-8.7				1016
Ce_xLa_{1-x}					1012
$Ce_{1-0}La_{0-1}Ru_2$	6.2-6.3-<1.4-4.1		C15		1026
$Ce_{0.6-0.3}La_{0.4-0.7}Ru_2$			C15	1.4	1026
$Ce_{1-x}Mn_xRu_2$	T_c'(-11.5 K/mol%)				946
$Ce_{1-x}Ni_xRu_2$	T_c'(-0.7 K/mol%)				946
Ce Ru_2	6.2				946
Ce Ru_2	6.2		C15		1026
Ce Sn_3			Ll_2	0.07	715
Ce_xTh_{1-x}					886
Ce_xTh_{1-x}	1.36-~0.07				951
$Ce_{0-0.09}Th_{1-0.91}$	1.35 to <0.5				1012
$Co_{0.02}Cu_{0.98}Rh_2S_4$	~3.8		Hl_1		984
$Co_2Cu\ S_4$			Hl_1	0.05	984
$Co_xFe_{1-x}U_6$	3.85-2.4				920
Co Ge_2				0.051	770
$Co_{0.5}Mn_{0.5}U_6$	2.55				920

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Co_{0.002}Mo_{0.815}Re_{0.185}$	5.8	HF			881
$Co_xNi_{1-x}U_6$	2.4-0.41				920
$Co_{0.5}Ni_{0.5}V_3$			A15	2.0	1001
$Co_{0.3}Ni_{0.7}V_3$			A15	2.0	1001
$Co_{0.5}Ni_{0.5}Zr_2$	3.1		C16		914
$Co_xNi_{1-x}Zr_2$	5.0-5.9-1.3-1.4		C16		914
$Co_{0.9}Rh_{0.1}V_3$			A15	2.0	1001
$Co_{0.5}Rh_{0.5}V_3$			A15	2.0	1001
$Co_{0.01}Ti_{0.99}$				1.5	759
$Co\ U_6$	2.4				920
$Co_{0.25}V_{0.75}$			A15	0.015	948
$Co\ V_3$			A15	0.015	707
$Co\ Zr_2$	5.0		C16		914
$Co_{0-0.1}Zr_{1-0.9}$	Max., 3.7, 2.3				717
Cr					788
Cr				0.015	788
$Cr_{0.008}Cu\ Rh_{1.992}S_4$	~3.9		Hl_1		984
$Cr_{0.75}Ga_{0.25}$			A15	0.35	945#
$Cr_{0.75}Ge_{0.25}$			A15	1.2	945#
Cr_3Ir	0.168	HF	A15		707
$Cr_{0.835}Ir_{0.165}$	0.77		A15		945#
$Cr_{0.75}Ir_{0.25}$	0.17		A15		945#
Cr_3Ir	0.17		A15		1023
$Cr_{0.73-0.92}Mo_{0.27-0.08}$				0.015	788
$Cr_{0.06-0.57}Mo_{0.94-0.43}$	0.71-0.030				788
$Cr_{0.72}Os_{0.28}$	3.86		A15		707
$Cr_{0.72}Os_{0.28}$	3.95		A15		707
$Cr_{0.72}Os_{0.28}$	4.25		A15		945#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Cr_{0.72}Os_{0.28}$	4.03		A15		707
$Cr_{0.67}Os_{0.33}$	1.03		$D8_b$		707
$Cr_{0.79}Pt_{0.21}$			A15	0.015	945#
$Cr_{0.915}Pt_{0.185}$			A15	1.2	945#
$Cr_{0.79}Pt_{0.21}$			A15	0.015	707
Cr_3Rh	0.07		A15		1023
Cr_3Rh	0.072	HF	A15		707
$Cr_{0.75}Rh_{0.25}$	0.07		A15		945#
$Cr_{0.72}Ru_{0.28}$	3.42		A15		945#
$Cr_{0.72}Ru_{0.28}$	3.43		A15		707
$Cr_{0.238}Si_{0.262}$			A15	1.2	945#
Cr Si			A15	0.015	945#
$Cr_{0.75}Si_{0.25}$			A15	1.2	945#
$Cr_{0.821}Si_{0.179}$			A15	1.2	945#
Cr_3Si				0.015	707
$Cr_{0.85}Ta_{0.15}$			A1	0.024	963
Cr_xV_{1-x}	1.3-5.1	HF	A2		441#
$Cr_{0.1}V_{0.9}$	3.21				788
$Cr_{0.58-0.945}V_{0.42-0.055}$				0.015	788
$Cr_{0.1-0.48}V_{0.9-0.52}$	3.21-0.10				788
Cs(V)(>~125 kbar)	~1.5				781
Cu					756
Cu					713#
$Cu_{0-60 w/o}Nb_{100-40 w/o}$		HF			960
Cu_xPb_{1-x}	7.2-~1.5 K				756 ▽
$Cu\ Rh_2S_4$	4.80-4.65		Hl_1		984
$Cu\ Rh_{2-x}S_4Ti_x$	~3.0		Hl_1		984
$Cu\ Rh_2S_4$	4.35		Hl_1		983

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Cu\ Rh_{2-1.5}Se_4Sn_{0-0.5}$	3.47-~0		Hl_1		924
$Cu\ Rh_2Se_4$	3.47		Hl_1		924
$Cu\ Rh_{2-x}Se_4Sn_x$	3.7 to <0.050				714
$Cu\ Rh_2Se_4$	3.49-3.45		Hl_1		984
$Cu\ Rh\ Se_4$	3.50		Hl_1		983
$Cu\ S_4Ti_2$			Hl_1	0.05	984
$Cu\ S_4V_2$	4.45-3.95		Hl_1		984
$Cu_{0.810}Sb_{0.190}$	0.045-0.070		Hex.		769
$Cu_{0.845}Sb_{0.155}$	0.127-0.184		$L2_1$		769
$Cu_{0.844}Sb_{0.156}$	0.067		A3		769
$Cu_{0.786}Sb_{0.214}$	0.028-0.047		Hex.		769
$Cu_{0.76}Sb_{0.24}$	0.037-0.041		Ortho.		769
$Cu_{0.676}Sb_{0.324}$	0.085		C38		769
Cu Zn				1.30	1009
$D_{0.018}Nb_{0.982}$	~9.23				190
$Fe_xMn_{1-x}U_6$	2.4-2.25-3.85				920
$Fe_{0.0008}Mo_{0.725}Nb_{0.061}Re_{0.187}$		HF			881
$Fe_{0.0008}Mo_{0.725}Nb_{0.061}Re_{0.187}$	1.85	HF			881
$Fe_xMo_{0.865}Re_{0.135}$	2.1-6.1	HF			881
$Fe_{0.0006}Mo_{0.865}Re_{0.135}$		HF			881
$Fe_xMo_{0.87}Re_{0.13}$		HF			982
$Fe_{0.05}Nb_{0.38}Ti_{0.57}$		HF			905
$Fe_{0.75}Ni_{0.25}U_6$	1.4				920
$Fe_{0.5}Ni_{0.5}U_6$	2.3				920
$Fe_{0.25}Ni_{0.75}U_6$	3.0				920
$Fe\ Np_6$				0.5	920
$Fe_{0.02}Re_{0.98}$	1.60				712
$Fe_{0.05-0.70}Ru_{0.95-0.30}$				0.015	788

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Fe_{0.018-0.042}Ru_{0.982-0.957}$	0.165-0.018				788
$Fe_{0.02}Sc_{0.05}Zr_{0.93}$	0.35				744
$Fe_{0.0005}Ti_{0.9995}$	~0.42		Hex.		962
Fe U_6					920#
Fe U_6	3.85				920
Fe U_6(3×10^{12} neutrons/cm^2sec, 4×10^{-6} burn-up)	1.6				907
Ga (Isotope study)	1.0845				938
Ga (4.2 K, warmed to 70 K)	6.5				779▽
Ga (4.2 K)	8.4				779▽
Ga (II')(35 katm then to 0)	7.5				779
Ga (II)(>35 katm)	6.38				779
Ga					773▽
Ga	1.0833				803
Ga (II)	6.24	620			791#
Ga (I)	1.08	59.3			791#
Ga ($\blacktriangle T_c = 10^{-5}$ K)	1.083				1003
$Ga_xGe_{1-x}V_3$	5.9-13.9		A15		894
Ga_2La				1.4	863
Ga La				1.15	711
Ga_3Lu	2.30		Ll_2		715
$Ga_4Mn_xMo_{1-x}$	8.0-4.0	HF			753
Ga_3Nb_5	1.35				927
Ga P ($n=1.0 \times 10^{19}$)				0.051	770
Ga_7Pt_3				1.1	1008
Ga_2Ta_3			Tet.	0.1	927
Ga_2Ta_3			Tet.	0.1	927
Ga_2Th	2.56				711
Ga V_3	13.87		A15		1013
Ga V_3(sintered rod)	14.1	HF			877

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Ga V_3		HF			872
Ga V_3	14.83	HF	A15		880#
$Ga_{0.30-0.03}V_{0.70-0.97}$	2-13.7-10.0		A15		901
Ga V_3					957
$Ga_{0.143}V_{0.856}$(~1% O_2)			Cub.	4.2	958
Ga_5V_6				4.2	958
Ga $V_{4.5}$	8.6	HF	A15		787
Ga V_3	14.0	HF	A15		787
Ga_2Y	1.68		Tet.		863
Ga Y				1.15	711
Ga_3Zr_5	3.85				711
Ga_3Zr_5(Quenched)	2.5-4.0				711
Ga_2Zr_3			Tet.	0.1	927
$Gd_{0.005}La_{0.995}$	3.60				915
Gd_xLa_{1-x}	3.9-2.8				947#
$Gd_{0.014}La_{0.986}$				2.0	812
$Gd_{0.021}La_{0.979}$				2.0	812
Gd_xPb_{1-x}					748▽
$Gd_{0-0.028}Y_{1-0.972}$				2.0	812
Ge_2La	2.24		C_c		916#
$Ge_{1.78}La$	1.57		C_c		916#
$Ge_{1.78-2.0}La$	1.57-2.24		C_c		916#
Ge_2La	2.2		C_c		308#
Ge P (30-65 kbar, 400-900°C)	1.8-4.2		Tet.		891
Ge P_5			Rhomb.	1.25	891
Ge P_3			Rhomb.	1.25	891
Ge Sn (Two films)	T_c'(-0.08)				989▽
Ge Te		HF			770

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ge_{0.950}Te$					813#
$Ge_{1.03}Te$ (n=1.52 x 10^{21})	0.172				807#
$Ge\ Te_{1.02}$(n=1.16 x 10^{21})					807#
$Ge\ Te_{1.01}$(n=1.05 x 10^{21})					807#
$Ge_{0.976}Te$ (n=8.6 x 10^{20})	0.07				710
$Ge_{0.963}Te$ (n=9.3 x 10^{20})	0.17				710
$Ge_{0.950}Te$ (n=11.8 x 10^{20})	0.24				710
$Ge_{0.937}Te$ (n=15.4 x 10^{20})	0.31				710
$Ge_{1.006}Te$ (n=7.5 x 10^{20})				0.04	710
Ge_2Th_3			Tet.	0.1	927
Ge Tl (Two films)	T_c'(+0.11)				989∇
Ge V_3	6.104		A15		1013
Ge V_3 (13,000A)	6.7	HF			719∇
$Ge_{0.96}V_{3.04}$	5.9		A15		894
$Ge_{0.24}V_{0.76}$	5.88		A15		792
Ge V_3 (220,000A)	6.7	HF			719∇
Ge V_3	6.9	HF			719
Ge V_3	6.3-6.1		A15		1015
$Ge_{1.62}Y$	2.4		C_c		808#
Ge Y				1.15	711
$H_{12}Li\ N_4$				1.9	1010
$H_{0.036}Nb_{0.964}$	~9.22				190
Hf				0.015	942
$Hf_{0.91-0.33}Mo_{0.09-0.67}$	2.1-2.9-1		Cub.		956
Hf Mo_2	~1		Cub.		956
Hf Mo_2			C36	0.05	956
Hf Mo_2	0.07		C15		956
$Hf_{0.15}Nb_{0.85}$	9.85				885

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Hf_xNb_{1-x}	9.22-9.85-6.5				885
Hf_xNb_{1-x}		HF	A15		441
Hf_3Si_2			Tet.	0.1	927
$Hf_{0.26-0.11}W_{0.74-0.89}$				1.2	956
$Hf_{0.33}W_{0.67}$				0.05	956
$Hf\ W_2$			C15	0.35	956
$Hf_{0.92-0.66}W_{0.08-0.34}$	2.3-2.8-2.5				956
$Hg_xIn_{0.02}Tl_{1-x}$	T_c'(-0.145)		Hex.		858
$Hg_xIn_{0.01}Tl_{1-x}$	T_c'(-0.18)		Hex.		858
Hg_xPb_{1-x}	T_c'(-0.085)				861
$Hg_xSb_{0.0008}Tl_{1-x}$	T_c'(-0.12)		Hex.		858
$Hg_xSb_{0.0004}Tl_{1-x}$	T_c'(-0.14)		Hex.		858
$Hg\ Ti_3$			A15	0.35	980
Hg_xTl_{1-x}	T_c'(-0.14)		Hex.		858
$Hg_{\approx 0.0045}Tl_{0.9955}$ (0-24 kbar)	T_c'(+0.05-0.12)				998
$Hg_{\approx 0.009}Tl_{0.991}$ (0-25 katm)	T_c'(-0.02 + 0.02 - 0.14)				998
$Hg\ Zr_3$			A15	0.35	980
Hg_3Zr	3.28± 0.3				715
In	3.402				765
In	3.405 (cal)	285			749#
In (pressure study)	3.407	192-270			829
In	~4.5 max.				837▽
In (200-200,000A)		270			888▽
In					932
In ($^{600-800A}_{3600A}$)	$^{3.47}_{3.42_5}$				800▽
In	3.41	293			791#
In (Pores: 65-250A)	3.68-4.17	HF			738
In (Pores: 70-250A)	3.4-4.2				986
$In_{1-x}Fe_x$					748▽

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
In Hg	3.16				959
In_3La	0.70		Ll_2		715
$In_{3(1-x)}La\ Sn_{3x}$	Max. 1.2, 6.0		Ll_2		765
$In\ Lu_3$	0.24, 0.14		Ll_2		715
$In_{0.998}Mn_{0.002}$	3.129				765
$In_{0.9995}Mn_{0.0005}$	3.281				765
$In_{1-x}Mn_x$	T_c'(-0.13)				754
$In_{1-x-y}Mn_xPb_y$	T_c'(-0.045)				754
$In_{1-x-y}Mn_xSn_y$	T_c'(-0.025 + 0.115)				754
$In_{0.0593}Pb_{0.9407}$					745#
$In_{0.0176}Pb_{0.9824}$					745#
In_xPb_{1-x}		HF			750▽
$In_{0-0.65}Pb_{1-0.35}$	7.2-6.05				861
$In_{0.99}Pb_{0.01}$(200-200,000A)		290			888▽
$In_{0.063}Pb_{0.937}$		HF			844
$In_{0.18-0.89}Pb_{0.82-0.11}$	t = 0.59-0.91	HF			949
In_xPb_y					936
$In_{0.035}Pb_{0.965}$		HF			919
$In_{0.6}Pb_{0.4}$	6.36	HF			809
$In_{1-0.89}Pb_{0-0.11}$	3.367-4.85		Tet.		969
$In_{0.961}Pb_{0.039}$	3.64	HF			1025
$In_{3(1-x)}Pb_{3x}Y$	Max. 4.7,1.2		Ll_2		715
In_3Ru	2.68				711
In Sb (Metastable: 25 kbar)	1.85, 1.6-2.1		A5		761
In Sb (Metastable: 27 kbar)	1.89	~100			718#
$In_{1-0}Sb_{1-0}Sn_{0-1}$(25 kbar)	1.8-3.7		A5		761
In Sb Sn	2.5		A5		761
$In_3Sb\ Te_2$	~0.9				1007

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$In\ Sc_2$			$B8_2$	4.2	853
$In_{1-x}Si_xV_3$					824
In_xSn_{1-x}					814#
$In_{1-0.94}Sn_{0-0.06}$	3.4-3.82				763▽
$In_{1-0.942}Sn_{0-0.058}$	3.4-3.9	275-360			763
In_xSn_{1-x}		HF			750▽
$In_{0-0.06}Sn_{1-0.94}$		HF			854▽
In_xSn_{1-x}					912
In_xSn_{1-x}		HF			910#
$In_{1-x}Sn_x$	3.44-3.90				799
$In_{3(1-x)}Sn_{3x}Th$	3.9 max.		Ll_2		715
$In_{3(1-x)}Sn_{3x}Y$	1.5 max.		Ll_2		715
In Te	2.2	800 ± 50	B1		761
In Te					770
In_3Th			Ll_2	0.05	715
In_xTl_{1-x}	T_c'(+0.39)		Hex.		858
In_3U			Ll_2	0.07	715
$In\ V_3$	13.9		A15		825
$In\ V_3$					824
In_3Y	0.78 ± 0.21		Ll_2		715
In_3Yb			Ll_2	0.05	715
Ir					963#
Ir	0.11-0.10				963
$Ir\ Mo_3$	8.11		A15		707
$Ir_{0.82}Mo_{0.18}$	0.50-0.40				963
$Ir_{0.9}Mo_{0.1}$	0.29				963#
$Ir_{0.953}Mo_{0.047}$	0.168-0.156				963
$Ir_{0.973}Mo_{0.027}$	0.133-0.125				963
$Ir_{0.987}Mo_{0.013}$	0.107-0.105				963

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Ir Mo_3Nb Pt (as cast)	5.82		A15		707
Ir Mo_3Nb_3Pt	6.13		A15		707
$Ir_{0.1}Nb_{0.9}$	2.3				592
Ir Nb_3	1.3		A15		922#
Ir Nb_3	1.76		A15		707
$Ir_{0.9}Nb_{0.1}$	0.060-0.049				963
$Ir_{0.925}Nb_{0.075}$	0.172-0.16				963#
$Ir_{0.965}Nb_{0.035}$	0.138-0.11				963
$Ir_{0.98}Nb_{0.02}$	0.115-0.082				963
$Ir_{0.99}Nb_{0.01}$	0.102-0.084				963
$Ir_{0.9}Os_{0.1}$					963#
$Ir_{0.7}Os_{0.3}$					963#
$Ir_{0.65}Os_{0.35}$					963#
$Ir_{0.6}Os_{0.4}$	0.73				963
$Ir_{0.7}Os_{0.3}$	0.48-0.40				963#
$Ir_{0.75}Os_{0.25}$	0.40-0.37				963
$Ir_{0.1}Os_{0.2}Rh_{0.7}$				0.015	963
$Ir_{0.75}Os_{0.05}Rh_{0.2}$				0.015	963
$Ir_{0.55}Os_{0.15}Rh_{0.3}$				0.015	963
$Ir_{0.6}Os_{0.1}Rh_{0.3}$				0.015	963
$Ir_{0.76}Os_{0.09}Rh_{0.15}$				0.015	963
$Ir_{0.54}Os_{0.1}Rh_{0.36}$				0.015	963
$Ir_{0.1}Os_{0.2}Rh_{0.7}$			A1	0.014	963
$Ir_{0.07}Os_{0.86}Rh_{0.07}$	0.064-0.030				963
$Ir_{0.088}Os_{0.825}Rh_{0.088}$	0.095-0.080				963
$Ir_{0.1}Os_{0.8}Rh_{0.1}$	0.140-0.070				963
$Ir_{0.135}Os_{0.73}Rh_{0.135}$	0.22-0.20				963
$Ir_{0.165}Os_{0.67}Rh_{0.165}$	0.35-0.25				963

Material	T_c(H)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ir_{0.18}Os_{0.47}Rh_{0.35}$	0.55-0.48				963
$Ir_{0.4}Os_{0.3}Rh_{0.3}$	0.37-0.28				963
$Ir_{0.125}Os_{0.375}Rh_{0.5}$	0.46-0.3				963
$Ir_{0.725}Os_{0.175}Rh_{0.1}$	0.16-0.13				963
$Ir_{0.6}Os_{0.2}Rh_{0.2}$	0.22-0.15				963
$Ir_{0.765}Os_{0.085}Rh_{0.15}$	0.096-0.075				963
$Ir_{0.55}Os_{0.15}Rh_{0.3}$	0.095-0.070				963
$Ir_{0.1}Os_{0.3}Rh_{0.6}$	0.21-0.15				963
$Ir_{0.75}Os_{0.05}Rh_{0.2}$	0.055-0.047				963
$Ir_{0.6}Os_{0.1}Rh_{0.3}$	0.055-0.044				963
$Ir_{0.1}Os_{0.25}Rh_{0.65}$	0.10-0.07				963
$Ir_{0.54}Os_{0.1}Rh_{0.36}$	0.038-0.026				963
$Ir_{0.125}Os_{0.2}Rh_{0.675}$	0.05-0.03				963
$Ir_{0.41}Os_{0.17}Rh_{0.42}$	0.095-0.080				963
$Ir_{0.49}Os_{0.21}Rh_{0.3}$	0.27-0.15				963
$Ir_{0.56}Os_{0.24}Rh_{0.2}$	0.28-0.25				963
$Ir_{0.63}Os_{0.27}Rh_{0.1}$	0.4-0.3				963
$Ir_{0.73}Os_{0.17}Ru_{0.1}$	0.34-0.31				963
$Ir_{0.825}Os_{0.1}Ru_{0.075}$	0.16-0.13				963
$Ir_{0.8}Pd_{0.2}$				0.015	963
$Ir_{0.6}Pd_{0.4}$				0.015	963
$Ir_{0.3}Pd_{0.7}$				0.015	963
$Ir_{0.2}Pd_{0.8}$				0.015	963
$Ir_{0.88}Pd_{0.12}$	0.035-0.022				963
$Ir_{0.9}Pd_{0.1}$	0.032				963
$Ir_{0.91}Pd_{0.09}$	0.047-0.033				963
$Ir_{0.95}Pd_{0.05}$	0.050-0.035				963
$Ir_{0.96}Pd_{0.04}$	0.069-0.057				963

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ir_{0.1}Pd_{0.9}$				0.015	963
$Ir_{0.83}Pd_{0.045}Pt_{0.125}$	0.037-0.030				963
$Ir_{0.2}Pd_{0.2}Rh_{0.6}$				0.015	963
$Ir_{0.1}Pd_{0.5}Rh_{0.4}$				0.015	963
$Ir_{0.5}Pd_{0.2}Rh_{0.3}$				0.015	963
$Ir_{0.25}Pd_{0.5}Rh_{0.25}$				0.015	963
$Ir_{0.4}Pd_{0.4}Rh_{0.2}$				0.015	963
$Ir_{0.02}Pt_{0.98}$					963#
$Ir_{0.04}Pt_{0.96}$					963#
$Ir_{0.1}Pt_{0.9}$					963#
$Ir_{0.8}Pt_{0.2}$					963#
$Ir_{0.8}Pt_{0.2}$	0.046-0.032				963
$Ir_{0.9}Pt_{0.1}$	0.066-0.053				963
$Ir_{0.3}Pt_{0.2}Rh_{0.5}$				0.015	963
$Ir_{0.775}Pt_{0.175}Rh_{0.05}$	0.032-0.025				963
$Ir_{0.72}Pt_{0.08}Rh_{0.20}$	0.030-0.025				963
$Ir_{0.7}Re_{0.3}$	1.7-1.4				963
$Ir_{0.80}Re_{0.20}$	0.66				963
$Ir_{0.85}Re_{0.15}$	0.61-0.445				963
$Ir_{0.9}Re_{0.1}$	0.34-0.28				963
$Ir_{0.93}Re_{0.07}$	0.220-0.197				963
$Ir_{0.96}Re_{0.04}$	0.142-0.130				963
$Ir_{0.98}Re_{0.02}$	0.112-0.109				963
$Ir_{0.4}Re_{0.1}Rh_{0.5}$	0.08-0.06				963
$Ir_{0.46}Re_{0.115}Rh_{0.425}$	0.13-0.1				963
$Ir_{0.56}Re_{0.14}Rh_{0.3}$	0.25-0.17				963
$Ir_{0.64}Re_{0.16}Rh_{0.2}$	0.55-0.4				963
$Ir_{0.72}Re_{0.18}Rh_{0.1}$	0.6-0.5				963

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Ir_{0.9}Rh_{0.1}$				0.015	963
$Ir_{0.8}Rh_{0.2}$				0.015	963
$Ir_{0.75}Rh_{0.25}$				0.015	963
$Ir_{0.5}Rh_{0.5}$				0.015	963
$Ir_{0.7}Rh_{0.3}$				0.015	963
$Ir_{0.75}Rh_{0.25}$	0.026-0.020				963
$Ir_{0.80}Rh_{0.20}$	0.03-0.02				963
$Ir_{0.815}Rh_{0.185}$	0.028				963
$Ir_{0.89}Rh_{0.11}$	0.06-0.05				963
$Ir_{0.95}Rh_{0.05}$	0.075-0.055				963
$Ir_{0.3}Rh_{0.5}Ru_{0.2}$				0.015	963
$Ir_{0.2}Rh_{0.5}Ru_{0.3}$	0.055-0.045				963
$Ir_{0.7}Rh_{0.5}Ru_{0.25}$	0.033-0.028				963
$Ir_{0.7}Rh_{0.2}Ru_{0.1}$	0.05-0.04				963
$Ir_{0.8}Rh_{0.15}Ru_{0.05}$	0.064				963
$Ir_{0.3}Rh_{0.5}Ru_{0.2}$	0.02-0.01				963
$Ir_{0.8}Ru_{0.2}$	0.13				963
$Ir_{0.765}Ru_{0.235}$	0.14				963
$Ir_{0.71}Ru_{0.29}$	0.18		Al		963
$Ir_{0.845}Ru_{0.155}$	0.11				963
$Ir_{0.89}Ru_{0.11}$	0.105				963
$Ir_{0.925}Ru_{0.075}$	0.11				963
$Ir_{0.9}Ta_{0.1}$	0.067-0.050		Al		963
$Ir_{0.925}Ta_{0.075}$	0.125-0.11				963
$Ir_{0.94}Ta_{0.06}$	0.150				963
$Ir_{0.97}Ta_{0.03}$	0.127				963
$Ir_{0.99}Ta_{0.01}$	0.116-0.096				963
$Ir_{0.10}Ti_{0.90}$	4.3		Cub.		717
$Ir_{0.04}Ti_{0.96}$	1.6		Cub.		717
$Ir_{0-0.135}Ti_{1-0.865}$	3.9 max.				717

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Ir Ti_3	4.63		A15		707
Ir Ti_3 (as cast)	4.18		A15		707
$Ir_{0.37}V_{0.63}$	1.71		A15		948#
$Ir_{0.31}V_{0.69}$	0.91		A15		948#
$Ir_{0.25}V_{0.75}$			A15	0.015	948#
Ir V_3			A15	0.015	707
$Ir_{0.85}V_{0.15}$	0.26-0.123				963
$Ir_{0.965}V_{0.035}$	0.147-0.135				963
$Ir_{0.98}V_{0.02}$	0.115-0.082				963
$Ir_{0.99}V_{0.01}$	0.11-0.086				963
$Ir_{0.85}W_{0.15}$	0.41-0.25				963
$Ir_{0.9}W_{0.1}$	0.23-0.20				963#
$Ir_{0.953}W_{0.047}$	0.162-0.147				963
$Ir_{0.973}W_{0.027}$	0.125-0.123				963
$Ir_{0.987}W_{0.013}$	0.107-0.105				963
$Ir_{0-0.1}Zr_{1-0.9}$	Max., 5.4,3.3				717
$K_{0.1}O_3Sr_{0.9}Ta_{0.1}Ti_{0.9}$ ($n=0.48 \times 10^{20}$)				0.051	770
La	<4.8-5.78				764
La	4.88	808	Al		747
La (95% Hex. Phase)	4.9		Hex.		806#
La (95% Cub. Phase)	6.0		Al		806#
La		HF			925
La (with SiO_2 and Nb)	4.9-1				923
La (0-17 kbar)	4.88-6.8		Hex.		1016
La	4.90				915
La	4.5		Hex.		812
La	5.6		Al		812#
La	4.9		Hex.		808#
La (23-40 kbar)	8.2-9.2		Al		729#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
La (1-23 kbar)	5.2-8.2		Hex.		729
La (0-~140 kbar)	5.9-11.93				1016
$La_{0.01}O_3Sr_{0.99}Ti$	($n = 3.1 \times 10^{20}$)			0.078	770
La In_3	0.71		$L1_2$		768#
La Pb_3	4.07		$L1_2$		768#
La Pb_3	4.10		$L1_2$		715
$La_{1-x}Pb_3Pr_x$	4.07-<0.3		$L1_2$		768#
La $Pb_{3(1-x)}Sn_{3x}$	Max.6.0, Min.3.5		$L1_2$		715
$La_{1-x}Pb_3Th_x$	Max.4.2, 5.6		$L1_2$		715
La $Pb_{3x}Tl_{3(1-x)}$			$L1_2$		715
$La_{1-x}Pr_xTl_3$	1.51-0.55		$L1_2$		768
La Ru	4.1		C15		1026
La S					730
La_3S_4	8.25		$D7_3$		730
La_3Se_4					770
La Si_2	2.3		C_c		808#
La_5Sn_3				1.4	863
La Sn_3	6.55		$L1_2$		768#
La Sn_3	6.02		$L1_2$		715
$La_{1-x}Sn_3Pr_x$	6.55-<0.3		$L1_2$		768
$La_{1-x}Sn_3Th_x$	6.3 max.		$L1_2$		715
$La_{1-x}Sn_3Tm_x$	6.55-4.2		$L1_2$		768
La_3Te_4	3.75,2.45	HF	$D7_3$		1024
La Tl_3	1.51		$L1_2$		768#
La Tl_3	1.63		$L1_2$		715
La $Tl_{3(1-x)}Sn_{3x}$	Max. 1.8,6.0		$L1_2$		715
$La_{0.15}Y_{0.85}$	0.1		Hex.		808#
$La_{0.35}Y_{0.65}$	0.4		Hex.		808#
$La_{0.48}Y_{0.52}$	1.0		Rhomb.		808#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$La_{0.60}Y_{0.40}$	1.3		Hex.		808#
$La_{0.75}Y_{0.25}$	2.0		Hex.		808#
$La_{0.85}Y_{0.15}$	2.7		Hex.		808#
Li				0.006	887#
Mg				0.006	887#
Mn_xPb_{1-x}					748▽
$Mn_{0.20}Ru_{0.80}$					788#
Mn_xTi_{1-x}				1.2	759#
$Mn_{0.14}Ti_{0.86}$	2.55				759#
$Mn_{0.002}Ti_{0.499}Zr_{0.499}$				1.24	759
$Mn_{0.0043}Zn_{0.9957}$					1030
$Mn\ U_6$	2.4				920
Mo	0.916	86			1031
Mo (with SiO_2 and Y)	1.7-6.5-<1		A2		923
Mo (at 4.2 K)	4-6.7,<2.5				921▽
Mo	0.91				788
Mo	0.49				972#
Mo N	12.0				815
Mo_2N	5.0				815
Mo_xNb_{1-x}	9.22-4.4				885
$Mo_{0-1}Nb_{1-0}$					811#
Mo_xNb_{1-x}	t = 0.03	HF	A2		441
$Mo_{0.725}Nb_{0.061}Re_{0.187}$	5.0	HF			881
Mo_3Os	11.76		A15		707
Mo_3Os	11.68		A15		707
$Mo_{0.45-0}Pt_{0.55-1}$			Cub.	1.0	845
$Mo_{0.55-0.47}Pt_{0.45-0.53}$			Ortho.	1.0	845
$Mo_{0.65-0.49}Pt_{0.35-0.51}$			Hex.	1.0	845
$Mo_{0.62-0.48}Pt_{0.38-0.52}$			Hex.	1.0	845

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Mo_{0.72}Pt_{0.28}$	4.3-5.6		A15		845
$Mo_{0-0.12}Pt_{1-0.88}$			Cub	1.0	845
Mo_4Pt	4.53		A15		707
$Mo_{0.85}Pt_{0.15}$	4.59		A15		707
Mo_4Pt	4.56		A15		707
$Mo\ Pt_2$			Ortho.	1.0	845
$Mo_{0.815}Re_{0.185}$	8.27	HF			881
$Mo_{0.865}Re_{0.135}$	6.1	HF			881
$Mo_{0.57}Re_{0.43}$	14.0				592
$Mo_{0.16}Ti_{0.84}$	4.246	HF			805#
$Mo_{0-0.05}Ti_{1-0.95}$	<1.5-3.0				931#
$Mo_{0-0.25}Ti_{1-0.75}$	2.1-3.9-3.6				929
$Mo_{0.16}Ti_{0.84}$	4.10				740#
$Mo_{0.006}U_{0.994}$(0-11 kbar)	1.20, 1.46				879#
$Mo_{0.03}U_{0.97}$	1.02_5, 1.00_7				879#
$Mo_{0.05}U_{0.95}$	0.382				879#
$Mo_{0.07}U_{0.93}$	0.827				879#
$Mo_{0.003}U_{0.997}$(0, 9 kbar)	1.2, ~1.64				879#
Mo_xV_{1-x}			A2		441
$Mo_{0.5}V_{0.5}$	0.11				788#
$Mo_{0.30}V_{0.70}$	0.76				788#
$Mo_{0.15}V_{0.85}$	2.28				788#
$Mo_{0.03-0.41}Zr_{0.97-0.59}$	2.2-5.3-4.5		Cub.		956
Mo_2Zr	4.6				956
Mo_2Zr			C15	0.35	956
N_xNb_{1-x}(Grain size,100-280A)	6-17.3				819[▽]
N Nb		HF			873
$N_{0.93}Nb$	15.85	HF	B1		880#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$N_{0.92}Nb$	16.30	HF	B1		880#
$N_{0.0023}Nb_{0.998}$	9.20				771▽
N Nb (2800, 5700A)	12.8, 11.9				941▽
N Nb	15.0				815
N Nb_2	9.5				815
$N_{0.91}Nb_{0.99}Ta_{0.01}$	15.62	HF	B1		880#
$N_{0.91}Nb_{0.974}Ta_{0.026}$	15.09	HF	B1		880#
$N_{0.92}Nb_{0.946}Ta_{0.054}$	14.41	HF	B1		880#
$N_{0.91}Nb_{0.82}Ta_{0.18}$	10.9	HF	B1		880#
N Nb Ti		HF			839▽
$N_{0.85}Nb_{0.66}Ti_{0.34}$	17.61	HF	B1		880#
$N_{0.88}Nb_{0.256}Ti_{0.744}$	14.72	HF	B1		880#
$N_{0.90}Nb_{0.114}Ti_{0.886}$	10.1	HF	B1		880#
N Nb Zr		HF			839▽
$N_{0.74}Nb_{0.9}Zr_{0.1}$	14.42	HF	B1		880#
$N_{0.76}Nb_{0.85}Zr_{0.15}$	14.16	HF	B1		880#
$N_{0.85}Nb_{0.75}Zr_{0.25}$	12.96	HF	B1		880#
$N_{0.73}Nb_{0.95}Zr_{0.05}$	15.42	HF	B1		880#
N Ta_2				4.2	906
N Ta	6.5 ± 0.5		B1		906
N Ta			B_h	4.2	906
Na Pb_3	5.62		$L1_2$		715
Nb (270A)	9.1	HF			719▽
Nb	9.1	HF			995
Nb	9.18	2040			722
Nb	9.20 ± 0.03	HF			994
Nb	9.2				819▽
Nb	9.20	HF			994
Nb	9.20				721#
Nb	9.23				864#
Nb	9.23	HF			928#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Nb	0.23	2040			722
Nb	9.25 ± 0.01	1970			743
Nb	9.28				913
Nb (245A)	9.3	HF			719▽
Nb	9.4				1002#
Nb	9.4_6				771
Nb	9.45				1017
Nb					727
Nb					720#
Nb		HF			895
Nb		HF			1021
Nb		HF			751
Nb (irradiated)		HF			832
Nb		HF			827
Nb (foils)		HF			883
Nb (4.2 K)(250, 400A)	6.2-8.1				921▽
Nb (300-7500A)	6.4-9	HF			913▽
Nb (37,000A)	10.0	HF			719▽
$Nb_{1-x}O_x$	t = 0.58	HF			441
$Nb_{0.993}O_{0.007}$	8.7	HF			771
$Nb_{0.9916}O_{0.0084}$					772
$Nb_{0.936}O_{0.064}$	~9	HF			771
Nb O(200 ppm)					771
Nb O					771
$Nb_{0.985}O_{0.0152}$	8.0_4	HF			771
$Nb_{1-x}O_x$		HF			944
Nb_3Os	0.94		A15		1023
Nb_3Os	0.94	HF	A15		707
Nb_3Os	~0.5		A15		922#
Nb P S	7.5-12.5		Ortho.		892
Nb P Se			Ortho.	1.25	892
Nb Pb S_3	2.62		Tet.		778#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Nb_{0.67}Pb\ S_3$	2.01, 2.00		Tet.		795#
$Nb\ Pb\ S_3$	2.66		Tet.		795#
$Nb_{1-x}Pb\ S_3Ta_x$	2.7-2.0-3.3				795
$Nb_{0.9}Pd_{0.1}$	3.5				592
$Nb_{0.9}Pt_{0.1}$	2.5				592
Nb_3Pt	9.8		A15		922#
Nb_3Pt	8.18		A15		707
$Nb_{0.9}Re_{0.1}$	4.5				592
$Nb_{0.9}Rh_{0.1}$	2.8				592
$Nb\ S_2$	6.0				1027
$Nb\ S_2$					810#
$Nb\ S_2$	5.99,6.15-5.83		Hex.		778
$Nb\ S_2$	5.4, 5.5				796#
Nb_3Sb			A15	0.4	801
$Nb\ Sb_2$				1.15	711
$Nb_{0.83}Sb_{0.17}$	1.95, 2.0		A15		1002#
$Nb_{0.9\text{-}0.7}Sb_{0.1\text{-}0.3}$	5.8-<0.5		A15		1002
$Nb_3Sb_xSn_{1-x}$	18.05-16.25		A15		947
$Nb_{0.50}Sb_{0.25}Ti_{0.25}$	3.05		A15		1002#
$Nb_{0.25}Sb_{0.25}Ti_{0.50}$	1.95, 2.05		A15		1002#
$Nb_{\sim 4\text{-}0}Sb\ Ti_{0\text{-}3}$ (Quenched) (Annealed)	5.3-2-3-1.95 6.5-1.8-3.1-2		A15		1002#
$Nb\ Se_2$	6.9				796#
$Nb_{0.339}Se_{0.661}$	6.1	HF			996
$Nb_{0.338}Se_{0.662}$	6.75	HF			996
$Nb\ Se_2$	7.0	HF			996
$Nb\ Se_2$					992
$Nb\ Se_{2(1-x)}Te_{2x}$	0.74-2.7				992
$Nb\ Se_{2(1-x)}Te_{2x}$	7-7.18-3.0				992
$Nb\ Se_{2(1-x)}Te_{2x}$					992

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Nb_3Sn ($Fe_2Mn_{0.5}Zn_{0.5}O_4$)	14.7-17.0				831
Nb_3Sn (Al_2O_3 Powder)	17.7-18.1				831
Nb_3Sn (Diffusion layer)	18.1	HF			877
Nb_3Sn (Core wire)	18.04	HF	A15		880#
Nb_3Sn (Clad)	18.00	HF	A15		880#
Nb_3Sn (Multiwire)	18.21	HF	A15		880
$Nb\ Sn_2$	2.68				964
Nb_6Sn_5	2.07				964
Nb_3Sn	18.0	HF	A15		787
Nb_3Sn			A15		816
Nb_3Sn					970
Nb_3Sn(0-22,500 kg/cm^2)	17.5-14.3				977
$Nb_{2.85}Sn\ Zr_{0.15}$	18.07	HF	A15		880
$Nb_{2.79}Sn\ Zr_{0.21}$ (Clad)	17.98	HF	A15		880
$Nb_{2.70}Sn\ Zr_{0.30}$	18.01	HF	A15		880
$Nb_{1-x}Ta_x$					834
$Nb_{1-0.803}Ta_{0-0.197}$	9.25-7				833
$Nb_{0.803}Ta_{0.197}$	7.50				864#
$Nb_{0.9378}Ta_{0.0622}$	8.42	HF			864#
$Nb_{0.9575}Ta_{0.0425}$	8.55	HF			864#
$Nb_{0.9844}Ta_{0.0156}$	8.76	HF			864#
$Nb_{0.9913}Ta_{0.0087}$	8.87	HF			864#
$Nb_{1-0}Ta_{0-1}$	9.18-4.33	HF			940#
$Nb_{0.96}Ta_{0.04}$	8.87	HF			928#
$Nb_{1-0.6}Ta_{0-0.4}$	9.23-6.56	HF			928#
$Nb_{0.87}Ta_{0.13}$	8.15	HF	B2		911
$Nb_{0.79}Ta_{0.21}$ (Clad)	7.51	HF	B2		911
$Nb_{0.67}Ta_{0.33}$	6.81	HF	B2		911

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Nb_{0.54}Ta_{0.46}$	6.25	HF	B2		911
$Nb_{0.37}Ta_{0.63}$	5.31	HF	B2		911
$Nb_{0.17}Ta_{0.83}$	4.65	HF	B2		911
$Nb_{0.95}Ta_{0.05}$	8.58		B2		911
$Nb_{0.44}Ta_{0.56}$	5.85		B2		911
$Nb_{0.29}Ta_{0.71}$	4.94		B2		911
$Nb_{0.08}Ta_{0.92}$	4.38		B2		911
$Nb_{1-x}Ta_x$		HF	A2		441
$Nb_{0.5}Ta_{0.5}$	6.25	1220			722
$Nb_{\sim 0.04}Ta_{\sim 0.96}$					981
Nb Ta Ti					860
Nb Te_2 (Solid (Vapor transport)	0.50-0.74 0.60-0.66				797
Nb Te_2	0.6				796#
Nb_3Te_4	1.49				711
Nb Te_2					992
$Nb_{0.55}Ti_{0.45}$	9.4	HF			830
$Nb_{0.4}Ti_{0.6}$		HF			830
$Nb_{0.22}Ti_{0.78}$	7.8	HF			991
$Nb_{0.22}Ti_{0.78}$	7.5	HF			991
$Nb_{0.36}Ti_{0.64}$					991
$Nb_{0.56}Ti_{0.44}$					818
$Nb_{66w/o}Ti_{33w/o}$ (Impurities)	10.3				841
$Nb_{50w/o}Ti_{50w/o}$	9.3				841
$Nb_{0.44}Ti_{0.56}$	8.99	HF			374
$Nb_{1-x}Ti_x$	9.22-10.02-7.6				885
$Nb_{0.75}Ti_{0.25}$	10.02				885
$Nb_{0.6}Ti_{0.4}$	9.8 max.				592
$Nb_{0.25-1}Ti_{0.75-0}$	7.2-9.7-9.2		Cub.		901

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Nb_{0.26}Ti_{0.74}$(as cast)	8.15-7.31				965
$Nb_{0.20}Ti_{0.80}$(as cast)	6.6-6.15	HF			965
$Nb_{1-x}Ti_x$	t, 1-0.98-1.0	HF	A2		441
$Nb_{0.63}Ti_{0.37}$	9.2				725
$Nb_{0.44}Ti_{0.56}$	9.0				725
$Nb_{0.25}Ti_{0.75}$	5.8-7				999#
$Nb_{0.22}Ti_{0.78}$	7.72				993
$Nb_{0.22}Ti_{0.78}$	6.92				993
$Nb_{0.48}Ti_{0.52}$		HF			968
$Nb_{0.33}Ti_{0.67}$		HF			968
$Nb_{0.75}Ti_{0.15}Zr_{0.10}$	9.7	HF			830
$Nb_{0.62}Ti_{0.14}Zr_{0.24}$	9.6				830
$Nb_{0.41}Ti_{0.23}Zr_{0.36}$					830
$Nb_{0.53}Ti_{0.18}Zr_{0.29}$	9.1				830
$Nb_{0.57}Ti_{0.33}Zr_{0.10}$	9.6				830
$Nb_{0.62}Ti_{0.14}Zr_{0.24}$	9.7	HF			830
$Nb_{0.35}Ti_{0.15}Zr_{0.50}$	8.6	HF			830
$Nb_{0.43}Ti_{0.27}Zr_{0.30}$	8.6	HF			830
$Nb_{0.48}Ti_{0.30}Zr_{0.22}$	8.9	HF			830
$Nb_{0.47}Ti_{0.48}Zr_{0.05}$	8.7	HF			830
$Nb_{0.52}Ti_{0.16}Zr_{0.32}$	9.4	HF			830
$Nb_{0.65}Ti_{0.15}Zr_{0.20}$	9.8	HF			830
$Nb_{0.41}Ti_{0.15}Zr_{0.44}$	8.7	HF			830
$Nb_{0.36}Ti_{0.56}Zr_{0.08}$	10.05				965
$Nb_{0.19}Ti_{0.51}Zr_{0.30}$	10.05	HF			965
$Nb_{0.19}Ti_{0.74}Zr_{0.07}$	9.1	HF			965
$Nb_{0.22}Ti_{0.25}Zr_{0.53}$	9.30	HF			965
$Nb_{0.21}Ti_{0.61}Zr_{0.18}$	7.21				965

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Nb_{1-x}V_x$	t, 0.47		A2		441
$Nb_{1-x}W_x$	t, 0.25	HF	A2		441
$Nb_{0-1}Zr_{1-0}$		HF			847
$Nb_{0.06-0.88}Zr_{0.94-0.12}$	10-10.5				847
$Nb_{0.0125-0.6}Zr_{0.9875-0.94}$	3.2-10.0				847
$Nb_{0-0.0125}Zr_{1-0.9875}$	1.2-3.2		A3		847
$Nb_{1-x}Zr_x$	9.22-10.98-8.7				885
$Nb_{0.65}Zr_{0.35}$	10.98				885
$Nb_{1-0.75}Zr_{0-0.25}$	t, 1.20	HF	A2		441
Nb Zr	10.8	HF			739
Nb Zr (0-3.8 katm)	T_c ↑				970
$Nb_{0.25}Zr_{0.75}$	10.45 max.				971
$Nb_{0.20}Zr_{0.80}$	8.5 max.				971
$Nb_{0.75}Zr_{0.25}$		HF			975
$Nb_{0.20}Zr_{0.80}$		HF			991
Ni U_6	0.41				920
$Ni_{0.20}V_{0.80}$	0.57		A15		707
$Ni_{0.20}V_{0.80}$	0.57		A15		1023
$Ni_{0.22}V_{0.78}$	0.35		A15		948
$Ni_{0.225}V_{0.775}$	0.30		A15		1023
$Ni_{0.225}V_{0.775}$	0.30		A15		707
$Ni_{0.175}V_{0.825}$	0.78		A15		1023
$Ni_{0.175}V_{0.825}$	0.78		A15		707
Ni Zr_2	1.6		C16		914
O_3Nb Sr(n=2.7 x 10^{21})				0.044	770
O_3Sr Ti(n=2.2 x 10^{20})	0.30				884
O_3Sr Ti(n=2.5 x 10^{19})	0.27				884
O_3Sr Ti(n=6.3 x 10^{19})	0.27				884

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$O_3Sr\ Ti(n=2.7 \times 10^{19})$	0.24				884
$O_3Sr\ Ti(n=2.5 \times 10^{19})$	0.185				884
$O_2Sr\ Ti(n=0.13\text{-}2.2 \times 10^{20})$	<0.08-0.4-0.3				935
$O_3Sr\ Ti$		HF			770
$O_3Sr\ Ti(n=6.9 \times 10^{18}$ to $5.5 \times 10^{20})$	<0.05-0.295				709
$O_3Sr\ Ti(n=1.7\text{-}23 \times 10^{19})$	0.10-0.30	HF			1005
O_xTa_{1-x}	t, 0.72				441
$O_{1-x}Ti_{1-x}\square_x$(0-90 kbar)	0.6-2.3		B1		835
O Ti	2.3				835
O_xV_{1-x}	t, 0.35				441
Os					963#
Os	0.67				972#
$Os_{0\text{-}0.12}Re_{1\text{-}0.88}$(0-20 kbar)	1.694-1.93-1.79				952
$Os_{0.055}Re_{0.945}$	1.93				952
$Os_{0.2}Rh_{0.8}$				0.015	963
$Os_{0.5}V_{0.5}$	5.15		A15		948#
$Os_{0.55}V_{0.45}$	5.04		A15		707
$Os_{0.20\text{-}0.33}Zr_{0.80\text{-}0.67}$	4.1-<2				955
$Os_{0.267}Zr_{0.733}$			Cub.	1.2	955
P (>100 kbar)	4.7,5.3,6.1				775
P (170 kbar)	5.8	HF			786
P S Ta			Ortho.	1.25	892
$P_{2.65}Sn_4(n=2.2 \times 10^{22})$	1.24-1.10				930
Pb		HF			752▽
Pb					821▽
Pb	~7.1				837▽
Pb (3600A.)	7.7				941▽
Pb (0, 3.445 kbar)	7.24, 7.11				926
Pb (II) (160 kbar)	3.6				904
Pb (0-110 kbar)	7.2-4.2				904

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Pb (II) (160 kbar)	3.55				780
Pb					773∇
Pb (2500-7000A)					735∇
Pb (2000-6760A)		HF			985∇
Pb Pt	7.2-~1.5				756∇
Pb S_3Ta	3.07		Tet.		778
Pb S_3Ta	3.11, 3.07		Tet.		778#
Pb S_3Ti			Tet.	0.05	778#
Pb S_3Ti				0.05	795
$Pb_{1-x}Sb_x$	T_c'(+0.52)				861
$Pb_{1-x}Sn_x$	T_c'(+0.08)				861
$Pb_{0.10-0.18}Sn_{0.90-0.82}$	5.6-7.2				900
Pb_3Sr	1.85		Tet.		715
Pb Te ($n=5.0 \times 10^{20}$)				0.009	770
Pb_3Th	5.55		$L1_2$		715
$Pb_{1-x}Tl_x$	T_c'(-0.15)				861
$Pb_{0.965}Tl_{0.035}$(0,3 katm)		HF			919
Pb Tl					798∇
$Pb_{1-0}Tl_{0-1}$	7.22-<1.24-2.67				736
$Pb_{0.99}Tl_{0.01}$		820, HF			979
Pb V_3			A15	4.2	825
Pb_3Y	4.72		$L1_2$		715
Pb_3Yb	0.23 ± 0.10		$L1_2$		715
Pd					963
Pd					963#
$Pd_{0.4}Pt_{0.1}Rh_{0.5}$				0.015	963
$Pd_{0.25}Pt_{0.25}Rh_{0.5}$				0.015	963
$Pd_{0.75}Rh_{0.25}$				0.015	963
$Pd_{0.5}Rh_{0.5}$				0.015	963

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Pd\ Rh_{0.509}$					963#
$Pd\ Rh_{0.409}$					963#
$Pd\ Rh_{0.308}$					963#
$Pd\ Rh_{0.015}$					963#
$Pd\ Rh_{0.104}$					963#
$Pd\ Rh_{0.0537}$					963#
$Pd_{0.51}Sb_{0.49}$ (with <0.01 of twelve elements)	1.67-<0.3				950#
$Pd_{0.49-0.52}Sb_{0.51-0.48}$	1.67-1.44				950#
$Pd\ Te_2$	1.45				1027
Pd Th				1.15	711
$Pd_{0.25}V_{0.75}$	0.08		A15		948#
$Pd\ V_3$	0.082		A15		707
$Pd\ V_3$			A15	0.35	980
$Pd\ V_3$	0.08		A15		1023
$Pd_{1-0.75}W_{0-0.25}$			A1	0.2	846
$Pd_{0.74-0.56}W_{0.26-0.44}$	0.1-1.6		A1		846
Pr_xTh_{1-x}	1.37-0.3		Cub.		768
Pt					756[V]
Pt					963
Pt					963#
$Pt_{0.2}Rh_{0.8}$				0.015	963
$Pt\ Sb_2$(n=3.7 x 10^{20})				0.037	770
$Pt_{0.15}Ta_{0.85}$	0.40		A15		1023
$Pt\ Ti_3$	0.48	HF	A15		707
Pt_8Ti				1.15	711
$Pt_{0.46}U_{0.54}$				0.3	1018
$Pt_{0.222}V_{0.778}$	0.98		A15		948#
$Pt_{0.25}V_{0.75}$	3.20		A15		948#
$Pt_{0.28}V_{0.72}$	1.50		A15		948#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Pt V_3 (as cast)	2.53		A15		707
Pt V_3 (800°C/1 hr.)	2.86		A15		707
Pt V_3(1100°C/120hr./ quenched)	3.19		A15		707
Pt V_3	2.61		A15		707
$Pt_{0.29}V_{0.71}$			A15	1.086	707
$Pt_{0.27}V_{0.73}$	1.72		A15		707
$Pt_{0.25}V_{0.75}$	3.27		A15		707
$Pt_{0.23}V_{0.77}$	3.25, 2.75		A15		707
$Pt_{0.21}V_{0.79}$ (probably filaments)	1.76		A15		707
$Pt_{1-0.73}W_{0-0.27}$			A1	0.2	846
$Pt_{0.72-0.33}W_{0.28-0.67}$	0.2-3.0		A1		846
Rb (0-~150 kbar)				1.2	781
Re	1.694				952
Re	1.70				972#
Re Se_2				1.15	711
Re Si_2				1.15	712
$Re_{0.2}Ta_{0.8}$	0.21				713#
$Re_{0.15}Ta_{0.85}$	0.75				713#
$Re_{0.1}Ta_{0.9}$	1.49	232			713#
$Re_{0.075}Ta_{0.925}$	2.08	342			713#
$Re_{0.05}Ta_{0.95}$	2.77	460			713#
$Re_{0.025}Ta_{0.975}$	3.458	613			713#
$Re_{0.3}Ta_{0.7}$				0.06	713#
$Re_{0.25}Ta_{0.75}$				0.06	713#
$Re_{0.4}Ta_{0.6}$			Probably	<0.06	713#
Re_2Th	5.05				711
Rh					963#

Material	T_h(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Rh_{1-x}Ru_xSe_2$	4.5->0.050				714#
$Rh_{0.005-0.03}Ti_{0.995-0.97}$	1.8-3.2		A3		766
$Rh_{0.88}Ti_{0.12}$	4.0		Cub.		766
$Rh_{0.04}Ti_{0.96}$	2.0		Cub.		766
$Rh_{0.04}Ti_{0.96}$	2.0		Cub.		717
$Rh_{0.12}Ti_{0.88}$	4.0		Cub.		717
$Rh_{0-0.135}Ti_{1-0.865}$	4.3 max.				717
$Rh_{0.25}V_{0.75}$			A15	0.015	948#
Rh V_3			A15	0.015	707
Rh V_3			A15	2.0	1001
Rh Zr_3	11.0		$E9_3$		766
$Rh_{0.005-0.027}Zr_{0.995-0.973}$	3.5-4.8		A3		766
$Rh_{0.035-0.09}Zr_{0.965-0.91}$	5.0-11.0		Cub.		766
$Rh_{0.12}Zr_{0.88}$	11.0		Cub.		766
Ru	0.48				920
Ru	0.493 $\pm$ 0.0015				816
Ru	0.47				972#
Ru Sb	1.27				711
Ru_2Sc	2.24		C15		1026
Ru_2Y	2.42		C15		1026
S_2Ta	0.7		Hex.		1027
S_2Ta	1.6, 1.5				796#
S_2Ta	1.90, 1.99-1.82		Hex.		778
S_2Ta (Solid) (Vapor transport)	1.3-2.1 0.6-0.8				797
S V_3				1.15	711
Sb (III) (93 kbar)	3.52				902
Sb (85 kbar)	3.55				774
Sb_xSn_{1-x}	T_c'(-0.034)				817
Sb Ta_3	0.72-0.59		A15		1015
Sb Te ($n=5.0 \times 10^{20}$)				0.051	770

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
$Sb_{0.12-0.31}Ti_{0.88-0.69}$ (Quenched)	2.3-5.3-4.4		A15		1002
Sb_xTi_{1-x} (Annealed)	2.0-6.5-5.8		A15		1002
$Sb_{0.25}Ti_{0.75}$ (Annealed)	6.5, 5.7		A15		1002#
$Sb_{0.25}Ti_{0.75}$	5.3, 5.0		A15		1002#
Sb $Ti_{0-3}V_{3-0}$ (Quenched) (Annealed)	6.5-0.8 5.3-0.8		A15		1002
Sb_xTl_{1-x}	T_c' (+0.21)		Hex.		858
$Sb_{0.25}V_{0.75}$			A15	1.0	1002#
Sc				0.032	744#
$Sc_{0.01}Zr_{0.99}$	0.32-0.25,0.17-0.12				744#
$Sc_{0.05}Zr_{0.95}$	0.11-0.08				744#
$Sc_{0.07}Zr_{0.93}$	0.08-0.04				744#
$Sc_{0.1}Zr_{0.9}$				0.024	744#
$Sc_{0.15}Zr_{0.85}$				0.036	744#
$Sc_{0.2}Zr_{0.8}$				0.036	744#
$Sc_{0.25}Zr_{0.75}$				?	744#
$Sc_{0.4}Zr_{0.6}$				0.04	744#
$Sc_{0.5}Zr_{0.5}$				0.022	744#
$Sc_{0.8}Zr_{0.2}$				?	744#
Se_4Nb_3	1.61				711
Se_2Ta	0.2				1027
Se_2Ta	0.13-0.15				797
Se_2Ta	0.16-0.22				797
Se_2Ta	0.2				796#
Se_2V_{1+x}				0.05	797
Si_2Sr			Cub.	0.32	961
Si_3Sr_2	~0.55		C_c		961
Si_2Th_3			Tet.	0.1	927

Material	T_c(H)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Si_2U_3			Tet.	0.1	927
Si V_3	16.9	HF			877
Si V_3 (Wire core)	16.86	HF	A15		880#
Si V_3	14.5		A15		890
Si V_3	16.8	HF	A15		787
Si V_3	14.85-~16.6	HF			716∇
$Si_{0.25}V_{0.75}$	17.01		A15		707
$Si_{0.20}V_{0.80}$	7.51		A15		707
$Si_{0.30}V_{0.70}$	16.95		A15		707
$Si_{0.25}V_{0.75}$	16.65		A15		707
Si V_3 (Polycrystalline)	16.83		A15		1013
Si V_3 (Single crystal)	16.85		A15		1013
Si Y				1.15	711
$Si_{1.90}Y$			C_c	0.1	808#
Si_2Zr_3			Tet.	0.1	927
Sn (11,000A)					757∇
Sn					749#
Sn (1000-27,000A)		HF			750∇
Sn (0-31.6 katm)	3.733	306			829
Sn (Up to ~200A)	~6 max.				837∇
Sn (850,1580,3420A)	3.794,3.847,3.840				862∇
Sn (III) (P=113 kbar)	5.30				780
Sn	3.724				804
Sn (II) (240, 270 kbar)		400,375			785
Sn (II)(125 kbar,160 kbar)	5.2, 4.85				785
Sn		305 ± 5			785
Sn					814#
Sn (1400A)	3.84	HF			723∇
Sn (1950A)	3.87	HF			723∇
Sn (2600A)	3.92	HF			723
Sn (Plus Au, Cu)					734∇

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Sn (Whiskers, strained)	T_c'(+0.45)				974
Sn Te		HF			770
$Sn_{0.975}Te_{1.000}$					813#
Sn Te(n=7.5-20 x 10^{20})	0.34-0.214	HF			1022
Sn_3Th	3.33		Ll_2		715
$Sn_{0.65}Tl_{0.35}$	6-7.1	HF			900
Sn_3V_2				1.15	711
Sn_3Y_5				1.4	863
Sn_3Y_5				1.15	711
Sn Y_2				1.15	711
$Sn_{0.91}Zn_{0.09}$ (Laminar Structure)	3.668-3.722				726
Sn Zr_4	0.92-0.79		A15		1015
Sr				1.2	781
Ta	4.31		B2		911
Ta	4.463	831			713#
Ta (300,9850,1640A)	3.16,4.15,4.8	HF			719$^{\nabla}$
Ta Te_2				0.05	797
Ta Te_2				0.05	796#
$Ta_{0.52}Ti_{0.48}$	7.86	HF			874
$Ta_{1-x}Ti_x$			A2		441
Ta_xV_{1-x}			A2		441
$Ta_{1-x}W_x$	t, 0.12		A2		441
$Ta_{1-x}Zr_x$		HF	A2		441
Tc (0-15 kbar data given)	8.00 ± 0.01, 7.924 ± 0.01 } P=0				836
Tc	7.79 ± 0.02				712
Tc	7.73				712
Te (III) (70 kbar)	4.28				909
Te (II)(43 kbar)(n=1-4 x 10^{18})	2.05				909
Te (IV) (84 kbar)	4.3				909
Te_3Tl_5					849

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
Te_3Tl_5 ($n > 2 \times 10^{21}$)	2.20, 2.14	HF	Cub.		848
Te_2V_{1+x}				0.05	797
Th	1.374 ± 0.001				802#
Th					791
Th Tl_3	0.87		$L1_2$		715
$Th_{1-x}Tm_x$	1.37-0.67				768
$Th_{1-x}U_x$	1.36-0.068				951
Ti			A3		759#
Ti (0-25 katm, T_c↑)					997
Ti	0.39				1002#
Ti_4Tl			A15	0.35	980
$Ti_{0.80}V_{0.20}$	3.65-3.37				838
$Ti_{0.6}V_{0.4}$	7.0	HF			878
$Ti_{0.42}V_{0.58}$	7.52	HF			874
Ti_xV_{1-x}	5.2-7.5	HF	A2		441#
$Ti_{0.5}Zr_{0.5}$	1.60		A3		759#
Tl		179 ± 5	A1		760
Tl (0-27 katm)	T_c' (+0.02-0.25)				998
Tl V_3			A15	4.2	825
Tl_3Y	1.52		$L1_2$		715
Tl Zr_4			A15	0.35	980
U (0-12 kbar)	1.2-2.1				879
U				0.6	802#
U (10 kbar)	2.3				724
U	1.0-0.5				724
V	4.68	HF			917#
V	5.06	HF			917#
V	5.17	HF			917#
V	5.31				788#
V					727
V	5.379				742#
V	5.414 ± 0.01				742#

Material	T_c(K)	H_o(oersteds)	Crystal Structure	T_n	Ref.
V	5.30				1002#
$V_{26w/o}Zr_{74w/o}$	≈5.9	HF			678
$V_{0.4}Zr_{0.6}$	~7.8	HF			889
$V_{0.6}Zr_{0.4}$	8.3				889
$V_{0.1-0.9}Zr_{0.9-0.1}$	6.5-8.3-7.6	HF			889
W	0.0154	1.14			840#
W	0.0154	1.15			882#
W	0.0154	1.15			887#
W	~3				921▽
W_xZr_{1-x}	2.9-3.9-2.0		Cub.		956
W_2Zr	2.2-2.7				956
W_2Zr			C15	0.35	956
Y				0.006	781
Y (120-170 kbar)	~1.2-~2.7				781
Y (~160 kbar)	~2.7				781
Y					812#
Y	0.08		A3		808#
Zn (0-26.2 katm)	$\sqrt{0.76}$- $\sqrt{0.11}$	55-19			829
Zn					820#
Zn	~1.9 max.				837▽
Zn (Isotope study)	0.85				1000
Zn_2Zr (Ta impurity)			C15	0.1	741
Zr	0.53-0.51, 0.52-0.51				744#
Zr (Isotope study)	0.487				972#
Zr	~1.5 (Extrap.)	Pseudo BCC			956

HIGH MAGNETIC FIELD SUPERCONDUCTIVE MATERIALS AND SOME OF THEIR PROPERTIES

Table 3. High Magnetic Field Superconductive Materials and Some of Their Properties. (Note: All fields are quoted in kilo-oersteds. T_{obs} indicates temperature of measurement in degrees Kelvin. See text for discussion of field nomenclature.)

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
Al				$H_{\perp}/H_c$ given			888▽
$Al_2C\ Mo_3$	9.2			101		4.2	966
$Al_{3-x}Gd_xLa$	2.2-6.16			1.3-13.6		0	918
$Al_{2.968}Gd_{0.032}La$	3.00			2.09		0	918
$Al_{2.966}Gd_{0.034}La$	2.05			1.30		0	918
$Al_{2.98}Gd_{0.02}La$	4.00			7.96		0	918
$Al_{2.988}Gd_{0.012}La$	5.00			13.55		0	918
$Al_{0.8}Ge_{0.2}Nb_3$	17.8-19.1 Data given						823
$Al_{1-x}Ge_xNb_3$	20.7			$\simeq$ 200		14	876
$Al_{0.66}Ge_{0.33}Nb_{2.5}$	19.6-20.1			380 (Estimated)		0	896
$Al_{0.75}Ge_{0.25}Nb_3$	18.5			420		4.2	789
$Al_{0.153}Ge_{0.057}Nb_{0.79}$				410		4.2	787
$Al_{0.8}Ge_{0.2}Nb_3$	10.7			130		4.2	708▽
$Al\ La_3$	6.16			7.92		0	943
$Al\ La_3$	6.16			11.57			918
$Al\ Nb_3$	17.14			246		0	880
$Al\ Nb_3$	≈18.7			295		4.2	787
$Al_{0.0015}Sn_{0.9985}$				0.0175		3.595	850
AuV_3	2.55			~9		2.25	857
AuV_3	2.980			22-37		0	707
AuV_3	1.785			22-37		0	707
AuV_3	0.86			22-37		0	707
$B\ C\ Mo_2$	7.1			28		4.2	966

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
$Ba_xO_3Sr_{1-x}Ti$	0.50	0.0039				0	1005
Bi	6.55			11.75 (Upper)		0	973
Bi_2K	3.57		Data given				897
$Bi_{0-0.56}Pb_{1-0.44}$				0.53-13.8		4.2	750,855
$Bi_{0.025-0.40}Pb_{0.975-0.60}$		0.44-0.105-0.141	0.57-0.909	0.94-17.7		4.2	949
$C_{2.5}H_{2.5}N_{0.5}S_2Ta$	3.5			Data given			1027
$C_{0.64}Mo$	8.0			47		4.2	966
$C_{0.69}Mo$	12.1			98		4.2	966
$C_{0.52}Ti$	3.42			48		1.6	790
$C_{0.46}Ti$	3.32			45		1.6	790
$Ca_xO_3Sr_{1-x}Ti$	0.50	0.0019				0	1005
$CaSi_2$	1.58			1.0 0.32		0.35 1.0	961
$Cd_{0.02}Hg_{0.98}$					Data Given		978
$Cd_{0.015}Hg_{0.985}$					Data Given		978
$Co_{0.002}Mo_{0.815}Re_{0.185}$	5.8			6.1		0	881
Cr_3Ir	0.168			10.5		0	707
Cr_3Rh	0.072			9.1		0	707
Cr_xV_{1-x}	1.3-5.1		Data Given				441
$Cu_{0-60w/o}Nb_{100-40w/o}$			Data Given				960
$Fe_{0.0008}Mo_{0.725}Nb_{0.061}Re_{0.187}$	1.85			1.3		0	881
$Fe_xMo_{0.865}Re_{0.135}$	2.1-6.1			3.6-1.7		0	881
$Fe_{0.0006}Mo_{0.865}Re_{0.135}$			0.408	1.44		1.53	881
$Fe_xMo_{0.87}Re_{0.13}$				1.7-3.1		5.55	982
$Fe_{0.05}Nb_{0.38}Ti_{0.57}$				83 Max.		4.2	905

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
$Ga_4Mn_xMo_{1-x}$	8.0-4.0			74-25		0	753
Ga V_3	14.1			208		0	877
Ga V_3				215		4.2	872
Ga V_3	14.83			236		0	880
Ga $V_{4.5}$	8.6			95		4.2	787
Ga V_3	14.0			200		4.2	787
$GeTe_{1.03}$	0.172			0.095		0	807,770
GeV_3	6.7			73		1.3	719$^{\nabla}$
GeV_3	6.7			51		1.3	719$^{\nabla}$
GeV_3	6.9			31		1.3	719
Hf_xNb_{1-x}				I_c Data given			441
In (In pores)	3.68-4.17			11.6-58.4			738
$In_{0.063}Pb_{0.937}$		0.43		2.3		1.2	844,750$^{\nabla}$
$In_{0.18-0.89}Pb_{0.82-0.11}$		0.170-0.028	0.52-0.052	3.0-4.1-0.15		4.2	949
$In_{0.35}Pb_{0.965}$		0.6	0.85	1.75		0	919
$In_{0.6}Pb_{0.4}$	6.36	0.362 0.630		3.250		3.9 0	809
$In_{0.961}Pb_{0.039}$	3.64	Data Given	Data Given	Data Given			1025
In_xSn_{1-x}				Data Given			750$^{\nabla}$,854$^{\nabla}$ 910
La				Data Given			925
La_3Te_4	3.75 2.45	0.060 0.020		12.5 8		1.4 1.4	1024
Mo_xNb_{1-x}				I_c Data Given			441
$Mo_{0.725}Nb_{0.061}Re_{0.187}$	5.0			2.65		0	881
$Mo_{0.815}Re_{0.185}$	8.27			7.0		0	881
$Mo_{0.865}Re_{0.135}$	6.1		0.471	1.57		4.2	881

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
$Mo_{0.16}Ti_{0.84}$	4.246	0.905		60-66 59.3		0 1.18	805
$N_{0.93}Nb$	15.85			158		0	880,873
$N_{0.92}Nb$	16.30			130		0	880
$N_{0.91}Nb_{0.99}Ta_{0.01}$	15.62			135		0	880
$N_{0.91}Nb_{0.974}Ta_{0.026}$	15.09			135		0	880
$N_{0.92}Nb_{0.946}Ta_{0.054}$	14.41			135		0	880
$N_{0.91}Nb_{0.82}Ta_{0.18}$	10.9			100		0	880
N Nb Ti				>136		4.2	839▽
$N_{0.85}Nb_{0.66}Ti_{0.34}$	17.61			119		0	880
$N_{0.88}Nb_{0.256}Ti_{0.744}$	14.72			104		0	880
$N_{0.90}Nb_{0.114}Ti_{0.886}$	10.1			100		0	880
N Nb Zr				>136		4.2	839▽
$N_{0.74}Nb_{0.9}Zr_{0.1}$	14.42			136		0	880
$N_{0.76}Nb_{0.85}Zr_{0.15}$	14.16			132		0	880
$N_{0.85}Nb_{0.75}Zr_{0.25}$	12.96			116		0	880
$N_{0.73}Nb_{0.95}Zr_{0.05}$	15.42			146		0	880
Nb				2.80 (Outgassed) 4.70 (As prepared)		4.2	895
Nb (Rods and tubes)				4.2		4.2	751
Nb (Irradiated)				2.5-4.3			832
Nb	9.1			53		1.3	719▽
Nb	9.3			68		1.3	719▽
Nb	6.4-9			>30		Various	913▽
Nb	10.0			40		0	719▽
Nb				3.87 H‖ [100] 4.33 H‖ [111] 4.02 H‖ [110]		1.2	827
Nb (Foils)							883

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
Nb	9.1			3.82, 6.69 (at 16 k bar)			995
Nb	9.20	1.8		4.00	18.3		994,1021
Nb	9.20	1.8		4+	8.1	0	994
Nb	9.23			4.20		0	928
$Nb_{1-x}O_x$				Data given			441
$Nb_{0.9926}O_{0.0084}$				7.7_4	~ 13	4.2	772
$Nb_{0.993}O_{0.007}$	8.7_8			7	11.1	4.2	771
NbO (200 ppm)					8.0 (cold worked) 8.5	4.2	771
$Nb_{0.985}O_{0.0152}$	8.0_4			9.6	11.5	4.2	771
$Nb_{1-x}O_x$				Data given			944
Nb_3Os	0.943			1.26		0	707
$Nb_{0.339}Se_{0.661}$	6.1			Data given			996
$Nb_{0.338}Se_{0.662}$	6.75			Data given.			996
$NbSe_2$	7.0			Data given.			996
Nb_3Sn (Layer on Nb core)	18.1			245		0	877
Nb_3Sn (Core wire)	18.04			260		0	880
Nb_3Sn (Clad)	18.00			260		0	880
Nb_3Sn (multiwire)	18.21			280		0	880
Nb_3Sn	18.0			235		4.2	787
$Nb_{2.85}SnZr_{0.15}$ (Clad)	18.07			260		0	880
$Nb_{2.79}SnZr_{0.21}$ (Clad)	17.98			260		0	880
$Nb_{2.70}Sn\ Zr_{0.30}$ (Clad)	18.01			260		0	880
$Nb_{0.9378}Ta_{0.0622}$	8.42	1.12	1.8_9	5.56		0	864
$Nb_{0.9575}Ta_{0.0425}$	8.55	1.37	1.9_8	5.30		0	864
$Nb_{0.9844}Ta_{0.0156}$	8.76	1.70	2.0_3	4.50		0	864
$Nb_{0.9913}Ta_{0.0087}$	8.87	1.75	2.0_5	4.40		0	864
$Nb_{1-0}Ta_{0-1}$	9.18-4.33			Data given.			940

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
$Nb_{0.96}Ta_{0.04}$	8.87			6.14		0	928
$Nb_{1-0.6}Ta_{0-0.4}$	9.23-6.56			4.2-9.2		0	928
$Nb_{0.87}Ta_{0.13}$	8.15	0.91	1.69	7.08		0	911
$Nb_{0.79}Ta_{0.21}$	7.51	0.83	1.65	7.93		0	911
$Nb_{0.67}Ta_{0.33}$	6.81	0.55	1.37	8.73		0	911
$Nb_{0.54}Ta_{0.46}$	6.25	0.48	1.27	8.60		0	911
$Nb_{0.37}Ta_{0.63}$	5.31	0.37	1.04	6.75		0	911
$Nb_{0.17}Ta_{0.83}$	4.65	0.33	0.83	4.26		0	911
$Nb_{1-x}Ta_x$				Data given.			441,981
$Nb_{0.55}Ti_{0.45}$	9.4			108		4.2	830
$Nb_{0.4}Ti_{0.6}$				107		4.2	830
$Nb_{0.21}Ti_{0.79}$	7.8	1.125	3.572	77		4.2	991
$Nb_{0.20}Ti_{0.80}$	7.5	1.12	3.57	80		4.2	991
$Nb_{0.44}Ti_{0.56}$	8.99			Data given.			874
$Nb_{0.20}Ti_{0.80}$	6.6-6.15			Data given.			965,441
$Nb_{0.22}Ti_{0.78}$	6.92			30.1	45	5.54	993
$Nb_{0.48}Ti_{0.52}$				I_c vs H given.			968
$Nb_{0.33}Ti_{0.67}$				I_c vs H given.			968
$Nb_{0.62}Ti_{0.14}Zr_{0.24}$	9.6			69		4.2	830
$Nb_{0.75}Ti_{0.15}Zr_{0.10}$	9.7			57		4.2	830
$Nb_{0.53}Ti_{0.18}Zr_{0.29}$	9.1 9.0			81 80 (after anneal)		4.2 4.2	830
$Nb_{0.57}Ti_{0.33}Zr_{0.10}$	9.6			78		4.2	830
$Nb_{0.62}Ti_{0.14}Zr_{0.24}$	9.7			76		4.2	830

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
$Nb_{0.35}Ti_{0.15}Zr_{0.50}$	8.6 9.3			79 77 (after anneal)		4.2 4.2	830
$Nb_{0.43}Ti_{0.27}Zr_{0.30}$	8.6 9.1			75 77 (after anneal)		4.2 4.2	830
$Nb_{0.48}Ti_{0.30}Zr_{0.22}$	8.9 9.0			78 80 (after anneal)		4.2 4.2	830
$Nb_{0.47}Ti_{0.48}Zr_{0.05}$	8.7			89		4.2	830
$Nb_{0.52}Ti_{0.16}Zr_{0.32}$	9.4 9.5			71 72 (after anneal)		4.2 4.2	830
$Nb_{0.65}Ti_{0.15}Zr_{0.20}$	9.8			65		4.2	830
$Nb_{0.41}Ti_{0.15}Zr_{0.44}$	8.7 9.3			77 76 (after anneal)		4.2 4.2	830
$Nb_{0.19}Ti_{0.51}Zr_{0.30}$	10.05			I_c vs H given			965
$Nb_{0.19}Ti_{0.74}Zr_{0.07}$	9.1 9.30			I_c vs H given			965
$Nb_{1-x}W_x$				Data given			441
$Nb_{0-1}Zr_{1-0}$				<1-42-3		4.2	847
$Nb_{1-x}Zr_x$				Data given.			441
Nb Zr	10.8			92		0	739
$Nb_{0.75}Zr_{0.25}$	(10.6) (11.1)			81.9 (Abrikosov) 83.4 (Gorkov)		0	975
$Nb_{0.20}Zr_{0.80}$		1.12	3.57	80		4.2	991
O_3Sr Ti							770
O_3Sr Ti	0.30,0.25	0.0028				0	1005
P (170 k bar)	5.8-3.6			~4.8->10		0	786
Pb				H_c ($\parallel$) and H_c ($\perp$) given.			752^{∇},985^{∇}
$Pb_{0.965}Tl_{0.035}$		0.8	1.2	1.5		0	919
Pb Ti_3	0.486			3.45		0	707
SiV_3	16.9			235		0	877
SiV_3 (Core wire)	16.86			230		0	880

Material	T_c	H_{c1}	H_c	H_{c2}	H_{c3}	T_{obs}	Ref.
SiV_3	16.8			228		4.2	787
SiV_3				~105		10	716[▽]
Sn	3.84-3.92						723[▽],750[▽]
SnTe	0.034-0.214	0.0005-0.0019	0.001-0.0105	~0.005-0.09		0	770
$Sn_{0.65}Tl_{0.35}$	6-7.1			3.46		4.2	900
Ta	3.16			26		1.3	719[▽]
$Ta_{0.52}Ti_{0.48}$	7.86			Data given.			874
$Ta_{1-x}Zr_x$				I_c vs H given.			441
Te_3Tl_5	2.20			~1.7		1.2	848
$Ti_{80w/o}V_{20w/o}$	3.65-3.37			I_c vs H given.			838
$Ti_{0.6}V_{0.4}$	7.0			86 109 110		4.2 2.18 118	878
$Ti_{0.42}V_{0.58}$	7.52			Data given.			874
Ti_xV_{1-x}	5.2-7.5			Data given.			441
V (Impure)	4.68 5.06 5.17	0.36 0.70 0.72	1.16 1.33 1.34	8.0 5.50 4.58		0 0 0	917 917 917
$V_{26w/o}Zr_{74w/o}$	≈5.9	0.165 0.185 0.227 0.238				3.5 3.04 1.78 1.05	678
$V_{0.4}Zr_{0.6}$	~7.8			~110		4.2	889
$V_{0.1-0.9}Zr_{0.9-0.1}$	6.5-8.3-7.6			28-100-62		4.2	889

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